

	<p style="text-align: center;"><b>Qassim MH Nasir</b>  <b>College Of Engineering</b>  <b>Sharjah University</b>  <b>email: <a href="mailto:nasir@sharjah.ac.ae">nasir@sharjah.ac.ae</a>, <a href="mailto:qassim.nasir@gmail.com">qassim.nasir@gmail.com</a></b>  <b>Phone: + (9716) 5050-962 - Office</b></p>
	
	

## SUMMARY

- Extensive experience in
  - SoC architecture and operation
  - AI in APT detections
  - **MITRE ATT&CK**
  - IPD , IPS detection algorithms
  - Kali Unix
  - WAF and other security evaluation software
  - Digital Forensics.
  - Open-source Robotics Process Automation (RPA)
  - Development of intelligent RPA BOT embedding AI for forex trading.
  - Knowledge of commercial types such as UiPath, and Power automate.
  - blockchain applications and their use with different types of industrial applications.
- Career professional focused for 12+ years on (holding CISSP)
  - information security in terms of communication/network security, encryption, secure
  - software development, secure network architecture and programming, and security management (ISO 27001/2).
- Expertise in IT and projects management as of IT director and managing many departments within UoS.
- Thesis supervision in the area of using AI in communications, RPA, security, blockchain, attestation, SDN, IoT testbed, haptic communications and many other diverse applications.
- Knowledge and experts of many high-level languages such as Python, MATLAB, Java, C++, C#. Network Simulation with OPNET, QUALNET, ns2, and others.

## RESEARCH AND TECHNICAL INTERESTS:

- **RPA applications and enhancements**
  - Forex trading
  - Emails scanning
  - Web scarping.
  - OCR applications
  
- **Data and Network Security**
  - Certified Information Systems Security Professional (CISSP) holder
  - SoC
  - Information Security Management
  - ISO 27001/2 expert
  - Encryption Systems
  - Real Time Encryption Systems
  - Chaos in Encryption
  - Sensor Network Security.
  
- **Blockchain and IoT**
  - Blockchain performance
  - Blockchain security
  - Block chain for IoT based application.
  - Blockchain applications
  
- **Machine Learning Application in Security**
  - Anomaly Detection in IDS
  - Attack classifications
  - Clustering.
  - APT – Advanced Persistent Threats
  
- **Digital Communications**
  - Wireless Channel estimation
  - Receiver synchronization systems
  - Chaos in Communications
  - Telecommunication Software architecture and
  - Software Defined Radio platform for Cognitive Radio.
  
- **Computer Networks**
  - Power, Security and QoS aware MAC and routing protocols in mobile ad-hoc networking.
  - Haptic applications layer protocols.
  - MIMO aware MAC protocols.
  - Industrial protocols performance.
  - Web based process and network monitoring and control,
  - Networking protocols for wired and wireless (MANET) e.g. TCP/IP, MAC protocols.

- Network simulation and design software. Network analysis and design.
  - Routers and switches monitoring and control specially Cisco/Nortel products.
  - Cisco Certified Trainer for Trainers. Conduct courses for CCNA, CCNP.
  - Optical Networks including SONET, SDH and all types of connections.
  - ADSL firmware and MODEM software architectures.
- **Programming Languages**
    - Network programming with python, C, C#, and Java network programming.
    - e-automation, PLC ladder programming, SCADA, OPC.

### **QUALIFICATION:**

- **1994 Ph.D.** Digital Communications.

### **Granted Projects:**

1. RPA for Forex trading – UoS funded
2. False Data Injection (**FDI**) attacks for smart grids – UoS funded
3. APT based on deep learning and open source tools, DEWA funded.
4. Aerospace Center of Excellence (ACoE) funded by the General Civil Aviation Authority (GCAA)
5. Qassim Nasir, and Manar Abu Talib, “Remote attestation of Cyber Physical Systems (CPS)” funded by UoS
6. Qassim Nasir, and Manar Abu Talib, “Towards Blockchains Benchmarking & its Security Metrics for UAE Governments “, funded by UoS
7. Qassim Nasir, and Manar Abu Talib, “Iot Testbed “, funded by Dubai Electronic Security (DESC)
8. Qassim Nasir, Manar Abu Talib, Ali Bou Nasir, and members from AUS, “Improved Blockchain infrastructure with IoT for critical/smart government applications “, funded by Dubai Electronic Security (DESC)

### **WORK EXPERIENCE:**

1. **9/2022 – Present – Professor in Computer Engineering, College of Computing and Informatics, University of Sharjah.**
2. **1/2021 – 8/2022 – Professor in Electrical Engineering, college of engineering, university of Sharjah.**
3. **9/2020 – 7/2021 – A/Director of IT – University Of Sharjah –**  
Leading the following:
  - a. RPA applications

- b. Align the ITC goals with the UoS strategic directions.
  - c. WiFi 5 & 6 for UoS to have a full and strong coverage of building including branches.
  - d. Virtual Desktop Infrastructure (VDI) which is a desktop virtualization product that provides desktop virtualization to replace personal computers with virtual machines (VMs) on a UoS Datacenter.
  - e. Managed Security Service Provider
  - f. Optimize IT resources and projects.
  - g. Supervise Identity Access Project
  - h. SSO integration of working packages.
  - i. Re-assess the skill set to re-shift internally to make use of skills and knowledge.
  - j. Policies and Procedures project for ITC.
  - k. Network Access Control (NAC)
4. **9/2018 - Present - Head** of Scientific publishing department.
- a. Establish Electronic submission system
  - b. Make the unit electronic by adopting OJS.
  - c. OJS is open Journal System with customization needed to be aligned with UoS polices and procedure,
5. **11/2017 - Present - Co/Coordinator of OpenUAE Research Group, working in Open Source Software for AI(MML), Security, IoT and Blockchain for critical infrastructure.**
6. **9/2016 - 9/2018:** University Of Sharjah, Electrical and Computer Engineering Department, Sharjah, UAE, **Head of Electrical and Computer Engineering department**
7. **9/2014 - 9/2016:** University Of Sharjah, Electrical and Computer Engineering Department, Sharjah, UAE, **Research Funding Department Chairman**
8. **2/2001 - Present:** University Of Sharjah, Electrical and Computer Engineering Department, Sharjah, UAE, **Professor:**
9. **2008 - 2010:** Joseph Fourier, GIPSA lab , Grenoble France  
**Visiting professor**
- a. Joint research project on “MAC protocol and MIMO” and “Sensor Networks and MIMO”

- b. Joint book publication in the area of Software Defined Radio platform for Cognitive Radio

10. **2002 – 2009:** Helsinki University Of Technology, Helsinki, Finland.

**Visiting professor:**

- a. Teaching graduate course on “Web based Instrument and Process Monitoring and Control” , and “Industrial automation software design”

11. **1999-2001:** Ottawa University School Of Information Technology and Engineering, Ottawa, Canada.

**Part Time professor:**

- Teaching courses “Telecommunication software engineering”

**INDUSTRIAL Experience :**

1. **SPU manager (4+ years) :** OJS based publishing software for all three journals of UoS.
2. **Research Funding department chairman (2 years):** managing funds of all research projects within university of Sharjah.
3. **Electrical and Computer Engineer department chair person (2 years)**
4. **IT director ( 1 year)**
5. **Research group coordinator (4+ years)**
6. **Cisco Trainer (10 years)**
  - a. Teaching CCNA 1-4 as part Routing and switching
  - b. Consultation in network design and network security
7. **11/1997 – 2/2001 : NORTEL NETWORKS, Ottawa, Canada Senior Designer :**
  - a. Design of Fast retrains for GLITE ADSL modem produced by NORTEL. Analysis of Full initialization exchange sequence messages and the spectrum of the tones and their compliance with the ADSL CCITT standards.
  - b. Firmware System Designer for ADSL Modem control interface including protocol design for Element Management Layer messaging and data store inside the modem.
  - c. System implementation on the top of QNX and ARM processors.
  - d. Real time operating system performance for OC48 SONET equipment's.
  - e. Design of software for handling the CMISE messages for OC192 SONET (10Gbit/sec) , TN64X SDH Network Element operating under pSOS Real time OS .

- f. Network Management and reconfiguration of SONET 2 Fiber (2F) and 4F rings. Review the designs in protection, alarms, event reporting, backup/restore, Q3 and TL1 interface and matched lines.
- g. **Teaching** the following courses:
  - i. SONET Network Element Overview Course, NORTEL, Ottawa Canada
  - ii. Code Inspection Course, NORTEL, Ottawa , Canada
  - iii. Object Oriented systems analysis and design with C++.

**8. 8/1997 – 11/1997 : PRIOR DATA SCIENCES, Ottawa, Canada .  
Consultant**

- a. Developing Matrix Management for DynaTrax physical Routers in NORDX/CDT for medium size organization internetworking. The project includes complete Object Oriented communication software for controlling the physical layer connectivity. SNMP over TCP/IP protocol were used to deploy the NE management. The project consists of writing communication protocol "SNMP" with the NE using Visual C++ interfaced with the firmware (agent software).

**PUBLICATIONS:**

139 of scientific publications and technical reports have been published in National Journals, and International Conferences.

Faculty Member	Journal Papers	Conference Papers	Book Chapters	Other Research Outputs
Prof. Qassim Nasir	50	80	9	

**JOURNAL PUBLICATION:**

1. Nassif, Ali Bou; Nasir, Qassim; Talib, Manar Abu; Gouda, Omar Mohamed, " Improved Optical Flow Estimation Method for Deepfake Videos", Sensors, 22,7,2022, MDPI
2. AB Nassif, MA Talib, Q Nasir, Y Afadar, O Elgendy, "Breast cancer detection using artificial intelligence techniques: A systematic literature review", Artificial Intelligence in Medicine, 2022
3. Fatima Dakalbab, Manar Abu Talib, Omnia Elmutasim, Ali Bou Nassif, Sohail Abbas, Qassim Nasir, "Artificial Intelligence & Crime Prediction: A Systematic Literature Review", 2022, under Review

4. Sally M Idhis, Takwa Dawdi, Qassim Nasir, Manar Abu Talib, Yara Omran , “Detection and localization of unmanned aerial vehicles based on radar technology”, 2022, Book “Advanced Computing and Intelligent Technologies”, pp.429-452,
5. Hijazi, H.; Abu Talib, M.; Hasasneh, A.; Bou Nassif, A.; Ahmed, N.; Nasir, Q. ,Wearable Devices, Smartphones, and Interpretable Artificial Intelligence in Combating COVID-19, *Sensors* **2021**, *21*, 8424. <https://doi.org/10.3390/s21248424>
6. Talib, M.A., Majzoub, S., Nasir, Q. et al. “A systematic literature review on hardware implementation of artificial intelligence algorithms” . *J Supercomputing* *77*, 1897–1938 (2021). <https://doi.org/10.1007/s11227-020-03325-8>
7. Ali Bou Nassif, Qassim Nasir, Manar Abu Talib et al. “Improved Optical Flow Estimation Method for Deepfake Videos”, 21 September 2021, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-882636/v1>]
8. Abbas, S., Nasir, Q., Nouichi, D. et al. Improving security of the Internet of Things via RF fingerprinting based device identification system. *Neural Comput & Applic* (2021). <https://doi.org/10.1007/s00521-021-06115-2>
9. Ali Bou Nassif, Manar Abu Talib, Qassim Nasir, Fatima Mohamad Dakalbab , “Machine Learning for Anomaly Detection: A Systematic Review”, *IEEE Access*, 2021
10. Ahmed, Nafisa, et al. “SAPEM: Secure Attestation of Program Execution and Program Memory for IoT Applications.” *Computers, Materials & Continua*, vol. 67, no. 1, 2021, pp. 23–49. DOI.org (Crossref), <https://doi.org/10.32604/cmc.2021.014523>.
11. Jasim Al Ali, Qassim Nasir, Fikri Dweiri (2020), "BCM framework for Internet Of Things(IoT) Services," *International Journal of System Assurance Engineering and Management*, Springer.
12. Rawhi Alrae, Qassim Nasir and Manar Abu Taleb (2020), "Developing House of Information Quality Framework for IoT Systems," *International Journal of System Assurance Engineering and Management*, Springer.
13. Ali, Jasim Al, et al. “Business Continuity Framework for Internet of Things (IoT) Services.” *International Journal of System Assurance Engineering and Management*, vol. 11, no. 6, Dec. 2020, pp. 1380–94. DOI.org (Crossref), <https://doi.org/10.1007/s13198-020-01005-7>.
14. Gouda, Omar & Nassif, Ali & Abutalib, Manar & Nasir, Q.. (2020). “A Systematic Literature Review on Metaheuristic Optimization Techniques in WSNs” . *International Journal of Mathematics and Computers in Simulation*. 14. 10.46300/9102.2020.14.23. Li
15. Manar Abu Talib ,Sohaib Majzoub ,Qassim Nasir, Dina Jamal, “A Systematic Literature Review on Hardware Implementation of Artificial Intelligence Algorithms”, *The Journal of Supercomputing*, pp. 1-42, 2020,<https://doi.org/10.1007/s11227-020-03325-8>
16. Mohamed Abdallah, Manar Abu Talib, Sainab Feroz, Qassim Nasir, Hadeer Abdalla, Bayan Mahfood,,“Artificial intelligence applications in solid waste management: A systematic research review”, 2020 ,*Waste Management*, vol. 109, pp. 231-246

17. Alketbi, Ahmed, et al. "Novel Blockchain Reference Model for Government Services: Dubai Government Case Study." *International Journal of System Assurance Engineering and Management*, vol. 11, no. 6, Dec. 2020, pp. 1170–91. DOI.org (Crossref), <https://doi.org/10.1007/s13198-020-00971-2>.
18. Omnia Abu Waraga, Meriem Bettayeb, Qassim Nasir and Manar Abu Talib, "Design and Implementation of Automated IoT Security Testbed, *Computers & Security*, vol. 88, Oct, 2019. Q1, IF =3.476
19. Nasir, Qassim, and Omar Mahdi. "Patch Antenna Performance Optimization and Multi-Band Operation Using Single Rectangular Slot." *Wireless Personal Communications*, vol. 109, no. 1, Nov. 2019, pp. 155–73. DOI.org (Crossref), <https://doi.org/10.1007/s11277-019-06556-y>.
20. Bonny, Talal, and Qassim Nasir. "Clock Glitch Fault Injection Attack on an FPGA-Based Non-Autonomous Chaotic Oscillator." *Nonlinear Dynamics*, vol. 96, no. 3, May 2019, pp. 2087–101. DOI.org (Crossref), <https://doi.org/10.1007/s11071-019-04907-9>.
21. Salam, R. Sheriff, S. Al-Araji, K. Mezher and Q. Nasir , "Spectrum Sensing in Cognitive Radio Using Multitaper Method Based on MIMO-OFDM Techniques, *Annals of Telecommunications*, Springer , 2019, 74 (11-12), 727-736 IF =1.168.
22. Manar Abu Talib,, Sohail Abbas, Qassim Nasir, Mohamad Fouzi Mowakeh," Systematic Literature Review on Internet-of-Vehicles Communication Security", *International Journal of Distributed Sensor Networks*. 2018, <https://doi.org/10.1177/1550147718815054>, IF=1.787
23. Manar Abu Talib, Omar Eineaa, Qassim Nasir, Mohamad Fouzi Mowakeh, Mohamed Eltawilb, "Enhancing Computing Studies in High Schools: A Systematic Literature Review & UAE Case Study", *Heliyon/Elsevier*, 2019
24. Nasir, Qassim, et al. "Performance Analysis of Hyperledger Fabric Platforms." *Security and Communication Networks*, vol. 2018, Sept. 2018, pp. 1–14. DOI.org (Crossref), <https://doi.org/10.1155/2018/3976093>.
25. Salam, R. Sheriff, S. Al-Araji, K. Mezher and Q. Nasir, "Adaptive Threshold and Optimal Frame Duration for Multi-taper Spectrum Sensing in Cognitive Radio", *ICT Express*,2018.
26. Abdul Salam, Ahmed O., et al. "Multi-taper Spectrum-based Estimator for Cognitive Radio Using Multiple Antennas and STBC Techniques." *IET Circuits, Devices & Systems*, vol. 12, no. 2, Mar. 2018, pp. 133–43. DOI.org (Crossref), <https://doi.org/10.1049/iet-cds.2016.0498>.
27. Qassim Nasir, Enas khalil, "Experimental Evaluation of Haptic Data Communication with Prediction" *Multimedia Tools and applications*, Springer <https://link.springer.com/journal/11042>), pp. 1-21, 2, Feb. 2018. . IF =1.541
28. Salam, R. Sheriff, S. Al-Araji, K. Mezher and Q. Nasir , "Adaptive interacting multiple model-Kalman filter for multitaper spectrum sensing in cognitive radio", *IET electronic letters*, Volume 54, Issue 5, 08 March 2018, p. 321 – 322, IF=1.155 (A)
29. Abdul Salam, Ahmed, et al. "Novel Approach for Modeling Wireless Fading Channels Using a Finite State Markov Chain." *ETRI Journal*, IF = 1.116 (A), vol. 39, no. 5, Oct. 2017, pp. 718–28. DOI.org (Crossref), <https://doi.org/10.4218/etrij.17.0117.0246>



30. Qassim Nasir, "Behaviour of Fractional Loop Delay Zero Crossing Digital Phase Locked Loop (FD-ZCDPLL)", *International Journal of Electronics*, Jan. 2018, pp 153-163,,105,2017 , IF = 0.729 (B)
31. Nasir, Qassim. "Fixed Point Iteration Chaos Controlled ZCDPLL." *International Journal of Communications, Network and System Sciences*, vol. 09, no. 11, 2016, pp. 535-44. DOI.org (Crossref), <https://doi.org/10.4236/ijcns.2016.911042>.
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33. Ahmed Abdul Salam ; Ray Sheriff ; Saleh Al-Araji ; Kahtan Mezher ; Qassim nasir, "A Multi-Taper Spectrum Based Estimator for Cognitive Radio Using Multiple Antennas and Space-Time Block Code Techniques" *IET Circuits, Devices & Systems*, pp. 133-143,12,2,2018, IF =1.09 (A)
34. Ahmed O .Abdul Salama, Ray E. SheriffaSaleh, R.Al-Arajib, KahtanMezher, QassimNasir , "Adaptive threshold and optimal frame duration for multi-taper spectrum sensing in cognitive radio Author links open overlay", <https://doi.org/10.1016/j.ict.2018.02.002>
35. Qassim Nasir, "FIR Digital Filter based ZCDPLL for Carrier Recovery" *International Journal Of Electronics 1* DOI: 0.1080/00207217.2015.1046501, Page 736-746 , 103,4,2016, IF = 0.729 (B)
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43. Qassim Nasir, "Wireless Channel Tracking based on Optimum predictive LMS", *Wireless Personal Communications, Wireless Personal Communications*, 2008, see: <http://dx.doi.org/10.1007/s11277-008-9535-9>

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45. S. Harous, M. Aldubai, Q. Nasir , "An Energy Aware Multi-path Routing Algorithm for Mobile Ad Hoc Networks", International Journal of Business Data Communications and Networking (IJBDCN) , 2008
46. Qassim Nasir, "Performance Analysis of a Second Order Zero Crossing Digital phase Locked Loop with Time Delay", Submitted to the Journal of Applied Sciences, JAS June 2007
47. Qassim Nasir, " Chaos Controlled ZCDPLL for Carrier Recovery in Noisy Channels", Wireless Personal Communications, Volume 43 , Issue 4 , December 2007, 1577 – 1582
48. Lessan NG, Abdullah A, Hassan M, Nasir Q, Athammeh, "Glycemic Patterns Detected by CGMS in Patients with Diabetes Mellitus in the United Arab Emirates", Diabetes Technology Ther., 2006 Aug;8(4):513-5
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53. Qassim Nasir, " Digital Phase Locked Loop with Broad Lock Range Using Chaos Control Technique", in AutoSoft - Intelligent Automation and Soft Computing, Vol.12, 2, pp 183-186, 2006.
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55. Qassim Nasir, "Extended Lock Range Zero Crossing Digital Phase Locked Loop with Time Delay", EURASIP JWCN 2005:3 (2005), pp413-418. DOI: 10.1155/WCN.2005.413

### **BOOK CHAPTERS:**

1. Talib M.A. et al. (2021) Interoperability Among Heterogeneous Blockchains: A Systematic Literature Review. In: Rehman M.H., Svetinovic D., Salah K., Damiani E. (eds) Trust Models for Next-Generation Blockchain Ecosystems. EAI/Springer Innovations in Communication and Computing. Springer, Cham. [https://doi.org/10.1007/978-3-030-75107-4\\_6](https://doi.org/10.1007/978-3-030-75107-4_6)
2. Alketbi A., Talib M.A., Nasir Q. (2021) Blockchain Security Framework for Government Private Blockchain Consortium. In: Rehman M.H., Svetinovic D., Salah K., Damiani E. (eds) Trust Models for Next-Generation Blockchain Ecosystems. EAI/Springer Innovations in

Communication and Computing. Springer, Cham. [https://doi.org/10.1007/978-3-030-75107-4\\_9](https://doi.org/10.1007/978-3-030-75107-4_9)

3. Qasse I., Talib M.A., Nasir Q. (2021) Toward Inter-Blockchain Communication Between Hyperledger Fabric Platforms. In: Rehman M.H., Svetinovic D., Salah K., Damiani E. (eds) Trust Models for Next-Generation Blockchain Ecosystems. EAI/Springer Innovations in Communication and Computing. Springer, Cham. [https://doi.org/10.1007/978-3-030-75107-4\\_10](https://doi.org/10.1007/978-3-030-75107-4_10)
4. Bettayeb M., Nasir Q., Talib M.A. (2021) Implementation of Hyperledger-Based Secure Firmware Update Delivery for IoT Devices. In: Rehman M.H., Svetinovic D., Salah K., Damiani E. (eds) Trust Models for Next-Generation Blockchain Ecosystems. EAI/Springer Innovations in Communication and Computing. Springer, Cham. [https://doi.org/10.1007/978-3-030-75107-4\\_8](https://doi.org/10.1007/978-3-030-75107-4_8)
5. Qassim Nasir, "Software Defined Radio (SDR) platform for Cognitive Radio", a chapter in a book on "Advance Cognitive Radio Networks", Scientific Research Publishing (SRP), Editors: By Kosai Raof, Huaibei Zhou, Alagan Anpalagan, Dave Cavalcanti, Aydin Sezgin, Yuehong Gao, Huseyin Arslan, Qassim Nasir, 2011. Book Chapter
6. Qassim Nasir, "MIMO Aware Mobile Ad Hoc Networks", Chapter in "Advanced MIMO Systems," Scientific Research Publishing (SRP), Editors: B. Zhou & K. Raof, 2009 (Book Chapter)
7. Qassim Nasir, "Software Defined Radio platform for Cognitive Radio", a chapter in a book on **Advanced Cognitive Radio Network**, Scientific Research Publishing (SRP), ISBN: 978-1-935068-74-7, 2011
8. Qassim Nasir, "MIMO Aware Mobile Ad Hoc Networks", Chapter in "Advanced MIMO Systems," Scientific Research Publishing (SRP), Editors: B. Zhou & K. Raof, 2009
9. S. Harous, M, Q. Nasir . ""Routing Algorithms for Mobile Ad hoc Networks", a chapter in the Handbook of Research in Mobile Multimedia, 2nd edition 2008, (<http://www.igi-global.com/reference/details.asp?ID=8219>).

#### **REFEREED CONFERENCE AND WORKSHOP PROCEEDING PUBLICATION:**

1. Hafsa Ahmed, Mahmoud Bakr, Manar Abu Talib, Sohail Abbas, Qassim Nasir, "Unmanned Aerial Vehicles (UAVs) and Artificial Intelligence (AI) in Fire related Disaster Recovery: Analytical Survey Study", 2022 International Conference on Business Analytics for Technology and Security (ICBATS)
2. Khawla Hassan, Fatima Dakalbab, Manar Abu Talib, Chaouki Ghenai, Qassim Nasir, Maamar Bettayeb, "Blockchain Networks for Solar PV Electric Vehicles Charging Station to Support and Foster Clean Energy Transition" 2022 International Conference on Business Analytics for Technology and Security (ICBATS)

3. Omar Gouda, Ahmed Bouridane, Manar Abu Talib, Qassim Nasir, "Machine Learning-Based Methods in Source Camera Identification: A Systematic Review", 2022 International Conference on Business Analytics for Technology and Security (ICBATS)
4. Rawhi Alrae, Manar Abu Talib, Qassim Nasir, "Information Quality Management for the Medical Wearable Devices: Validation Study, 2022, The International Conference on Innovations in Computing Research, pp 397-406, Springer, Cham
5. Sally M Idhis, Takwa Dawdi, Qassim Nasir, Manar Abu Talib, Yara Omran, "Detection and Localization of Unmanned Aerial Vehicles Based on Radar Technology", Advanced Computing and Intelligent Technologies, book, Springer, 2022
6. Abdalkarim RM Seyam, Ali Bou Nassif, Qassim Nasir, Bushra Al Blooshi, Manar Abu Talib. 2021. "Deep Learning Techniques to Detect DoS Attacks on Industrial Control".
7. Afadar, Yaman, et al. "Heart Arrhythmia Abnormality Classification Using Machine Learning." 2020 International Conference on Communications, Computing, Cybersecurity, and Informatics (CCCI), IEEE, 2020, pp. 1-5. DOI.org (Crossref), <https://doi.org/10.1109/CCCI49893.2020.9256763>.
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10. Sara Ali Ghunaim, Qassim Nasir, Manar Abu Talib, "Deep Learning Techniques for Automatic Modulation Classification: A Systematic Literature Review", 2020 14th International Conference on Innovations in Information Technology (IIT), pp.108-113
11. Marwa Chendeb El Rai; Hussain Al Ahmad; Omar Gouda; Dina Jamal; Manar Abu Talib; Qassim Nasir. "Fighting Deepfake by Residual Noise Using Convolutional Neural Networks", 2020 3rd International Conference on Signal Processing and Information Security (ICSPIS)
12. Dina Jamal Hejji, Ali Bou Nassif, Qassim Nasir, Manar Abu Talib, "Systematic Literature Review: Metaheuristics-based Approach for Workflow Scheduling in Cloud", 2020 International Conference on Communications, Computing, Cybersecurity, and Informatics (CCCI), pp. 1-5
13. Alsaafin, A., Qasse, IA, Abu Talib, M., Nasir, Q. (2020). Lightweight Blockchain-Based System for Internet of Things Security, IEEE SoutheastCon, IEEE, USA
14. Ilham Qasse, Josef Spillner, Manar Abu Talib, Qassim Nasir, "A Study on DApps Characteristics," in IEEE 2nd International Conference on Decentralized Applications and Infrastructures, 2020

15. Qassim Nasir, "Performance Analysis Secure Wireless Communication Using Antenna Subset Modulation", 2020 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT), 2020, July 7-9, Bali, Indonesia
16. Spillner, Josef, et al. "CIFS'19 Workshop Chairs' Welcome & Organization." Proceedings of the 12th IEEE/ACM International Conference on Utility and Cloud Computing Companion - UCC '19 Companion, ACM Press, 2019, pp. 85–86. DOI.org (Crossref), <https://doi.org/10.1145/3368235.3368885>
17. Meriem Bettayeb, Omnia Abu Waraga, Manar Abu Talib, Qassim Nasir, Omar Einea, "IoT Testbed Security: Smart Socket and Smart Thermostat", 2019 IEEE Conference on Application, Information and Network Security (AINS), 18-23.
18. Rifat Hamoudi, Meriem Bettayeb, Areej Alsaafin, Mahmood Hachim, Qassim Nassir, Ali Bou Nassif, "Identifying Patterns of Breast Cancer Genetic Signatures using Unsupervised Machine Learning", 2019 IEEE International Conference on Imaging Systems and Techniques (IST)
19. Jasim Al Ali, Qassim Nasir, Fikri T Dweiri, Business Continuity Management Framework of Internet of Things (IoT), 2019, 2019 Advances in Science and Engineering Technology International Conferences (ASET)
20. M. Darya , H. Vakani , Qassim Nasir, "Error Control Codes for Molecular Communication Channels: A Survey", International Conference On Communications, Signal Processing, And Their Applications. American University Of Sharjah, UAE, March 19-21, 2019
21. Meriem Bettayeb , Sara Ghunaim ,Nour Mohamed , Qassim Nasir , "Error Correction Codes in Wireless Sensor Networks: A Systematic Literature Review ", International Conference On Communications, Signal Processing, And Their Applications. American University Of Sharjah, UAE, March 19-21, 2019
22. Douae Nouichi, Mohamed Abdelsalam, Qassim Nasir, Sohail Abbas, "IoT Devices Security Using RF Fingerprinting", 2019 International Conference on Internet of Things, Mechatronics and their Applications - 2019 Advances in Science and Engineering Technology (ASET) International Conferences - 2019 Advances in Science and Engineering Technology (ASET), Dubai 26th to 28th March 2019
23. Mohammed Al-Haidary, Qassim Nasir , "Physically Unclonable Functions (PUFs): A Systematic Literature Review", 2019 International Conference on Internet of Things, Mechatronics and their Applications - 2019 Advances in Science and Engineering Technology (ASET) International Conferences - 2019 Advances in Science and Engineering Technology (ASET), Dubai 26th to 28th March 2019.
24. Meriem Bettayeb, Qassim Nasir, Manar Abu Talib, " Firmware Update Attacks and Security for IoT Devices: Systematic Literature Review ", 6th ArabWIC Conference,, March 7th and March 9th, in Rabat, Morocco, 2019
25. Ilham A Qasse, Manar Abu Talib, Qassim Nasir, "Inter Blockchain Communication: A Survey", 6th ArabWIC Conference,, March 7th and March 9th, in Rabat, Morocco, 2019
26. Ali Bou Nassif, Omar Mahdi,Qassim Nasir, Manar Abu Talib, Mohammad Azzeh, "Machine Learning Classifications of Coronary Artery Disease", The 13th International Joint Symposium on Artificial Intelligence and Natural Language Processing, Nov 15, 2018 - Nov 17, 2018, Pattaya, Thailand

27. Nafisa A, M Abu Talib, Q. Nasir, "Program-flow attestation of IoT systems software", 2018 15th Learning and Technology Conference (L&T), pp. 67-73. Jeddah, Saudi Arabia, 25-26 Feb. 2018
28. Ahmed Alketbi, Q. Nasir, M. Abu Talib, "Blockchain for government services—Use cases, security benefits and challenges", pp. 112-119, Jeddah, Saudi Arabia, 25-26 Feb. 2018
29. Qassim Nasir, "Patch antenna performance improvement using circular slots", 2017 International Conference on Wireless Networks and Mobile Communications (WINCOM) Pages: 1 – 5, 1-4 Nov, 2017, Rabat, Morocco, Morocco
30. Alya Al-Hafri; Hamda Ali; Amer Ghias; Qassim Nasir, "Transformer-less based solid state transformer for intelligent power management" 2016 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA).Year: 2016,Pages: 1 – 4
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32. Ahmed O Abdul Salam; Ray E. Sheriff, Saleh R. Al-Araji; Kahtan Mezher ;Qassim Nasir;"Assessment on Using Multitaper and Higher-Order STBC Techniques for Spectrum Estimation in Cognitive Radio", The 2017 IEEE 86th Vehicular Technology Conference will be held 24–27 September 2017 in Toronto, Canada, pp. 1-6
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- Computer Engineering, CCECE 2015, Halifax, NS, Canada, May 3-6, 2015. IEEE 2015, ISBN 978-1-4799-5827-6: 1024-1029
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  41. Houcem Gazzah, Qassim Nasir, "Multiple Antenna System for Smart Base Stations with Adaptive Direction of reception" 2015 IEEE International Black Sea Conference on Communications and Networking. May 18-21 2015 in Constanta, Romania, pp. 162-165
  42. Zahraa A. Al-Mousa, Qassim Nasir, " cl-CIDPS: A Cloud Computing Based Cooperative Intrusion Detection and Prevention System Framework", International Conference on Future Networks Systems and Security 2015 ('FNSS 2015') , June 11-13, 2015 Paris, France, pp. 181-194.
  43. Qassim Nasir, Kahtan A. Mezher " Time to Digital Conversion Zero Crossing DPLL (TDC-ZCDPLL)", 2015 International Conference on Information and Communication Technology Research (ICTRC2015), Abu Dhabi, UAE
  44. Ahmed O. Abdul Salam, Saleh R. Al-Araji, Qassim Nasir, Kahtan A. Mezher, Ray E. Sheriff, : "A general perspective on software-hardware defined cognitive radio based on emergency ad-hoc network topology", Humanitarian Technology Conference - (IHTC), 2014 IEEE Canada International, 1-4 June 2014, pp 1-6, Montreal, QC
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  46. Qassim Nasir, Zahraa A. Al-Mousa "Honeypots Aiding Network Forensics: Challenges and Notions", The 15th International Conference on Advanced Communications Technology, ICCNS 2013, Nov 16-18 2013, London, UK, pp. 700-707
  47. Saleh Al-Araji , Khatan Mezher, and Qassim Nasir "First-Order Digital Phase Lock Loop with Continuous Locking", CICSyN2013, 5th International Conference on Computational Intelligence, Communication Systems and Networks, pp. 414-417, Madrid, 5-7 June 2013
  48. Zahra Al Mousa, Qassim Nasir, "Honeypots Aiding Network Forensics: Installation and Analysis within the UAE", The UAE Forum on Information and Communication Technology Research 2013 (ICTRF2013), May 12-13, 2013, Abu Dhabi, UAE
  49. Hanan Al-Obaidli, Qasim Nasir "Network Infrastructures Aiding the Investigations of Network Forensics, ", The UAE Forum on Information and Communication Technology Research 2013 (ICTRF2013), May 12-13, 2013, Abu Dhabi, UAE
  50. Houcem Gazzah, Qassim Nasir, "Enhanced Soft Decoding of Multi-Carrier Systems for Delay Sensitive Applications", The 15th International Conference on Advanced Communications Technology, ICACT 2013, Jan 27-30 2013, Phoenix Park, PyeongChang, S. Korea

51. Qassim Nasir, Enas Khalil, " Perception Based Adaptive Haptic Communication Protocol (PAHCP)", The 1st IEEE International Conference on Computer Systems and Industrial Informatics (ICCSII'12), 18-20 Dec 2012, Dubai , UAE
52. Hadi Abduleedha, Qassim Nasir , "Low Complexity High Security Image Encryption Based on Nested PWLCM Chaotic Map", The 6th International Conference for Internet Technology and Secured Transactions (ICITST-2011) , 11-14 December 2011, PP.220 – 225, Dubai , UAE
53. Qassim Nasir, Kasim Rashid, "Predictive FBLMS Adaptive Algorithm for Tracking Mobile Channels", First International Conference on Future Communication Networks (ICFCN-2012), Baghdad, Iraq, April 3-5, 2012
54. Alothman T., Kamel K., Danan Y., Nasir Q., "Mobile Based Arabic Sign Language Interpreter using Fuzzy Trees ",Fourth Annual Conference on Undergraduate Research on Applied Computing (URC2012). April 18 - 19, 2012
55. Kamel K., Alothman T.,Danan Y., Nasir Q.,"Instrumented Arabic Sign Language Interpreter on Android platform", The Eighth International Conference on Innovations in Information Technology (Innovations'12). March 18 - 20, 2012
56. Qassim Nasir, Saleh Al-Araji, "Performance Evaluation of Sigma Delta Zero Crossing DPLL", The IEEE International Conference on Electronics, Circuits, and Systems (ICECS) 2011, Beirut, Lebanon, December 11-14, 2011
57. Qassim Nasir, Asmaa Abid, and A. S. Elwakil," Experimental validation of Pseudo True Random Number Generation and Synchronization using Nested Linear Chaotic Maps based on TMS320C6416", 1st International Conference on Pervasive and Embedded Computing and Communication Systems , Algarve, Portugal 2011
58. Qassim Nasir, and Malli Ab-Balt," Linux-based Testbed for an improved IEEE 802.11 backoff algorithm", 2010 IEEE International Conference on Communications and Mobile Computing CMC2010, Shenzhen, China, April 12-14, 2010
59. Asmaa Abid, Qassim Nasir and A. S. Elwakil," Implementation of a Chaotically Encrypted Wireless Communication System", International Conference on Communications 2009 (ICC'09), June 14-18,, 2009, Dresden – Germany
60. Qassim Nasir, Maali Albalt, "A novel Backoff algorithm for IEEE 802.11 Networks", The 2009 International conference On Networking, Sensing and Control, Okayama City, Japan, March 26-29, 2009
61. Qassim Nasir, Maali Albalt, History Based Adaptive Backoff (HBAB) IEEE 802.11 MAC Protocol", Communication Networks and Services Research Conference, 2008. CNSR 2008. 6th Annual, May 2008 , pp 533-538, Halifax, NS, Canada
62. S.Harous, M. Aldubai, Q. Nasir, "Performance Analysis of An Energy Aware Multi-path Routing Algorithm for Mobile Ad Hoc Networks", International Conference on Computer Integrated Manufacturing CIP'2007, November, 03 – 04, 2007 Setif, Algeria
63. Rashida Hashim, Qassim Nasir, , and Saad Harous, " Congestion Aware Multi-path Dynamic Source Routing Protocol (CAWMP-DSR) for Mobile Ad-Hoc Networks", accepted in International Conference on advances in Mobile computing and Multimedia (MoMM2007)
64. Qassim Nasir, Saleh R. Al-Araji, " Performance Zero Crossing DPLL With ARC Sine", ICC'08 - Wireless Communications Symposium



65. S. Harous, M. Al-Dubai, Q. Nasir, "An Energy Aware Multi-Path Routing Algorithm", International Conference on Communication, Computer and Power (ICCCP'07 ), pp. 15-20, Muscat, Oman, February 19-21, 2007.
66. R. Hashim, Q. Nasir, Saad Harous, "Adaptive Multi-path QoS Aware Dynamic Source Routing Protocol For Mobile Ad-Hoc Network", Innovations in Information Technology IIT2006, ISBN: 1-4244-0674-9, pp. 1-5 , Dubai, UAE, November 19-21, 2006
67. Qassim Nasir, "Adaptive ZCDPLL for Quadrature-Quadrature PSK Carrier Recovery", accepted in 2006 IEEE Asia Pacific Conference on Circuits and Systems-APCCAS2006, Singapore, 4-7/12/2006
68. Qassim Nasir and Saleh R. Al-Araji " Performance Analysis of the ZCDPLL in faded mobile channels", UAE Forum in Telecommunication Research 2006
69. NG Lessan, A Abdullah, H AlMousavi, Q Nasir & S Athamneh "Utility of continuous glucose monitoring (CGMS) to explore Glycemic patterns in patients with diabetes mellitus in the UAE", 8th European congree Of Endocrinology 1-5 April 206, Glasgow, UK
70. Qassim Nasir, Mohamed Al-Dubai, and Saad Harous, "A Performance Study of DSR under different Wireless Channel Models" The Third International Conference on Advances in Mobile Multimedia (MoMM2005), pp. 283-289, sep. 19-21, 2005
71. Qassim Nasir and Saleh R. Al-Araji "Extended Locking range DTL using Chaos Techniques", Tencon '05 - IEEE Region 10 Conference Melbourne, Australia, Nov 21-24,2005
72. Qassim Nasir, "Adaptive ZCDPLL for QPSK detection", 12th IEEE International Conference On Electronics, Circuits and Systems , Gammath, Tunisia, December 11-14th, 2005.
73. Qassim Nasir," "Chaotic behaviour of First Order Time Delay Digital Tanlock Loop ", International conference: Sciences of Electronic Technologies of Information and Telecommunications, Tunisia March 27-31, 2005
74. Qassim Nasir," Chaotic behaviour of First Order Zero Crossing Digital Phase Locked Loop" , 2004 IEEE Asia-Pacific conference on Circuits and systems (APCCAS 2004)- Tainan , Taiwan , Dec 6-9 2004
75. Qassim Nasir, Saleh R. Al-Araji " Optimum Zero Performance Zero Crossing Phase Locked Loop Using Multi-sampling Technique " International Conference on Electronic , Circuits and Systems 2003 ,University of Sharjah – UAE , Dec 15-17 , 2003
76. Qassim Nasir ," Hashed Digital Watermark phase Coding performance " (International Arabic Conference On Information Technology) ACIT2003, Alexandria – Egypt Dec 20 -23 /2003
77. Qassim Nasir "Integration Of SNMP and Jini Mobile Network management "(International Arabic Conference On Information Technology) ACIT2002,University of Qatar, Doha-Qatar
78. Qassim Nasir " Networked Collaborative Learning ", Second forum on Engineering Education, Sharjah March 2002
79. Syed Faisal Ali Shah and Qassim Nasir, ""Tracking of mobile fading channels by predictive type RLS algorithm" ISWSN'03 ( International Symposium on Wireless

- Systems and Networks) , March 24-26, King Fahd University Of petroleum and Minerals, 2003
80. Qassim Nasir , Abdulla Serkot ,” Improved estimators for voice band radio link” , 1997 International symposium on radio propagation , Qingdao , China
  81. Nasir , Q.M., and Al-Araji, S. R., "Noise Effects on Second Order Zero Crossing Digital Phase Locked Loop," J. of Electronics and Computers Research,Vol.2, No.1, April 1988
  82. Nasir , Q.M., and Al-Araji, S. R, "Analysis and Design of A Second Order Zero Crossing Digital Phase Locked Loop in the Absence of Noise," J. of Electronics and Computers Research,Vol.1, No.2, October 1987
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  84. Nasir , Q.M., and Al-Araji, S.R., "A Second Order Adaptive Zero Crossing Digital Phase Locked Loop Operating in Noisy Environment," Proceedings of the International Symposium on Signal Processing and its Application, Brisbane, Australia, August 24-28, 1987.

#### **TECHNCAL REPORTS:**

1. Qassim Nasir , “Fast Retrain algorithm and state machine structure for MAUI chip Glite ADSL High speed Modem”, 2000
2. Qassim Nasir ,”Profile Matching and aging of channel signature for Fast retrain of Glite ADSL High Speed Modem “.
3. Qassim Nasir ,” Control Specification for MAUI chip ADSL modem “ , 2000
4. Qassim Nasir , “OC48 Alarms restructure “ , Technical Report, Nortel Networks , 1999
5. Qassim Nasir , “Performance of pSOS real time operating system for SONET Network Element “ , Technical Report, Nortel Networks , 1999 .
6. Qassim Nasir , “Slot Based File structure For High Rate SONET Network Element ( OC48 and OC192) “ , Technical Report, Nortel Networks , 1999
7. Qassim Nasir , “CMIS vs. SNMP for Managing SONET Equipments “ , Technical Report, Nortel Networks , 1998
8. Qassim Nasir , “SNMP protocol for Metro Optical Networks “ , Technical Report, Nortel Networks , 1998.

## **PROFESSIONAL QUALIFICATIONS**

### **Attended Conference, Workshops, training programs**

- The 4<sup>th</sup> International Cyber Crimes Conference 14/12/2011 , Dubai , UAE
- CISSP training workshop , Dubai 2011.
- CISCO training for trainers, American University Of Sharjah, 2009, UAE

### **Conference and Workshop Organization**

- Organizing Member of IEEE GCC Conference 2011, Dubai 2011.
- Vice chair and IT Committee Chair in International Conference On Micro Electronics Sharjah 2008 ICM2008. (2008)
- Logistic Committee Chair in ISSPA07 (International Signal and System Processing – Sharjah 2007). (2007)
- Refereeing manuscripts for the "**University of Sharjah Journal of Pure and Applied Sciences**" (PAS Journal), Published by the University of Sharjah.

### **Editing and Reviewing Activities**

- Reviewer for "IEEE Transactions on Industrial Informatics"
- Reviewer for "IEEE Access"
- Reviewer, Wireless Personal Communications, **Springer** Publication
- Reviewer, Journal of Network and Computer Application, **Elsevier** Publication
- Reviewer for ISSPA, WOSPA, ICM2008, ICECS2011, and many others.
- Reviewer and Examining Committee for international PhD theses

### **Education Activities**

- Chair of ABET committee for ECE - 2017
- Chair of **The Southern Association of Colleges and Schools Commission on Colleges (SACS-CoC)** 2011
- Member of ABET accreditation Committee 2009 – 2016
- Member of IEM **Accreditation** Committee (2006-2007)
- Staffing Committee for CPE, and IEM , CV screening, conducting telephone and face-to-face interviews, and making hiring recommendations. (2006-2008)
- Member **of Continued Education and Community Service (CCE)** for University Of Sharjah ( 2003-2006)
- Department Advisory Committee Meeting Coordinator 2007
- Member, "**Accreditation Committee**" (Department of ECE, University of Sharjah) (2004, and 2007).
- Member, "**Graduate Committee**" (Department of ECE, University of Sharjah) (2004 - 2007).
- Graduate Student Advisor (2005-2011)
- Member of UoS Cisco Academy (2007 - Now)

### **Administration Activities**

- Chairman of Scientific Publishing department – UoS – 2018- Now
- Chairman of Electrical and Computer Engineering (ECE) - UoS, 2016- 2018
- Chairman of Research Funding department - UoS– 2014-2016
- Acting Dean Of College Of Engineering, University Of Sharjah - UoS, Summer 2011.
- Assistant to **Electrical and Computer Engineering (ECE)** Department (2006- Present)
- **Computer Engineering Program** Coordinator (CPE) 2007-2009
- Member of **Industrial Engineering Management (IEM)** Department committee.
- Member of college council (2007-2009)
- Member of the “**Research Committee**” (University of Sharjah) (2002-2011).
- Chairman, “**Equipment Committee**” (University of Sharjah) (2006-2008).
- Member, **Research Group** of Signal Processing (2005 - Present).
- Member, “**Research Committee**” (Department of ECE, University of Sharjah) (2003 - 2007).
- Member, “**Recruitment Committee**” (Department of ECE, University of Sharjah) (2006, 2007).
- Member, “**Seminar's Committee**” (Department of ECE, University of Sharjah)(2002 - 2005).

#### Industrial Activities:

- Juniper Associate 2016 – Now
- CISSP – 2013- 2019
- Project leader for **ADSL Modem Firmware** at NORTEL Networks – Canada. (1999-2001)
- Project Leader for **OC-12 express (optical switch)** at NORTEL Networks – Canada (1998-1999)
- Project Leader for **OC-192 express (optical switch)** at NORTEL Networks – Canada (1996-1998)
- Project Leader for **Physical Router Management Software** at Prior Data Sciences – Canada (1996-1996)
- Operation Manager for many computer centers **at Iraqi Ministries** such as Ministry of Finance, Ministry of Housing and constructions. (1978-1996)
- Project leader for **computerized irrigations system** in DIALA – Iraq. (1991-1994)

#### INVITED TALKS:

1. SecureDubai Conference, 17th November 2014, “Cloud Computing, Intrusion Detection and Prevention System”
2. “e-automation”, IEEE exhibition , Women Association Center, Dubai, 6/6/2006.
3. “SONET and OSI” Canada, 1997
4. "Industrial Network Protocols", Sharjah , 2009

#### SAMPLE OF SEMINARS:

1. “Chaos application in Encryption” 2009
2. “Labview and G-programming”, Sept 2006, UoS.
3. “MANET simulation”, March 2006, UoS.

4. "Basic of wireless networks", April 2006.
5. "Water Marking", Oct. 2005.

## **ENGINEERING and SOFTWARE EXPERIENCE**

1. Scikit Learn AI tools using Python.
2. CISSP – Security Professional
3. IoT Test Bed
4. Block chain security
5. OpenHaptic API and Omni devices
6. Network Simulation using ns-2, QualNet, and Glomosim.
7. Instrumentation simulation using LabView,
8. Wireless system development Kit using Chipcon
9. DSP programming of Texas Instrument TMS systems.
10. Electrical and Electronics design using Pspice and Orcad.
11. Many Programming Languages such as Intel assembly language, C, C++, C#, Java, and Java for Mobile phones and PDAs
12. Experience with Real Time Operating systems such pSOS, Symbian, Windows CE, Android Mobile Operating system).
13. PLC Ladder programming
14. PIC Microcontroller Programming – Micro C.

## **LANGUAGES**

Fluent in English, Arabic, Good knowledge of German;  
Some knowledge of French.