

Asma Channa

PERSONAL DATA

PLACE AND DATE OF BIRTH: Hyderabad | 13 June 1992
ADDRESS: Iuliu Maniu Street N.1, Camin Leu-D Apt.002 Bucharest, Romania
PHONE:
SKYPE: live:asma.channa₁
EMAIL: asma.channa@stud.acs.upb.ro

EDUCATION

- Nov 2019 - Present Double PhD degree from **University “Politehnica” of Bucharest, Romania** and **Università Mediterranea di Reggio Calabria, Italy** in INFORMATION TECHNOLOGY under framework of A-WEAR Project (in progress).
Program Description: A-WEAR is a four year (2019-2022) H2020 Marie Skłodowska-Curie Innovative Training Network (ITN)/European Joint Doctorate (EJD) with the aim of educating, supervising, and training researchers to face the future challenges in smart wearables and wireless computing and enhance their career prospects by training them in a multi-sector cross-country environment and teaching them to think globally.
Thesis: Wearables for eHealth
Supervisory team: Prof. Nirvana Popescu (University “Politehnica” of Bucharest, Romania), Prof. Antonio Iera (Università Mediterranea di Reggio Calabria, Italy) and industrial mentors: Dr. Oana Cramariuc and Dr. Bogdan Cramariuc (CITST - IT Center for Science and Technology, Romania)
- Mar 2016 - Apr 2018 Master of Science in ELECTRONIC SYSTEMS ENGINEERING, **Mehran University of Engineering and Technology**, Jamshoro Pakistan
GPA: 3.90/4.00
Program Description: This master program was focused on core and advance topics in embedded systems along with innovation and entrepreneurship. As part of this program, I spent my research work at Selcuk University of konya, Turkey.
Thesis: Machine Learning for Analyzing Gait in Parkinson’s Patients using Wearable Force Sensors
Supervisor: Dr. Rahime Ceylan (Selcuk University, Konya) and Dr. Attiya Baqai (Mehran University of Engineering and Technology)
- Jan 2011 - Feb 2015 Bachelor of Science in ELECTRONIC ENGINEERING, **Mehran University of Engineering and Technology**, Jamshoro Pakistan
GPA: 3.70/4.00
Final Year Project: Home Energy Management System
Supervisor: Engr. Aamir Ali Patoli

WORK EXPERIENCE

- Nov 2019 - Oct 2020 Researcher at **University of POLITEHNICA Bucharest, Romania**
- Build a novel eHealth architecture based on wireless communication modules and links and wearable materials; Create advanced algorithms used for decision making and data extracting in the eHealth architecture; Prototype and test the proposed architecture using Arduino boards and Raspberry Pi-s.
- Jun 2016 - Sep 2019 Lab Supervisor at **Mehran University of Engineering and Technology, Jamshoro Pakistan**
- Delivered a high quality learning experience to students, which was met with consistently positive feedback when independently evaluated by the faculty.
- Devised and implemented learning objectives, lesson plans and activities to meet targets on a weekly, monthly and semester basis.
- Jun 2014 - Jun 2014 Intern at **Pakistan Telecommunication Company Limited, Hyderabad Pakistan**, a prominent telecommunication company, and learnt the following processes:
- Practical training on switching, routing, cabling and billing process
- learnt about router configuration and control room monitoring .
- Jun 2013 - Jun 2013 Intern at **Mehran University of Engineering and Technology, Jamshoro Pakistan**
- Learnt various Microprocessors and Microcontrollers
- Jun 2012 - Jun 2012 Intern at **Civil Aviation Authority, Hyderabad Pakistan**
Interned at CAA, a public sector autonomous body, which oversees and regulates all aspects of civil aviation in Pakistan and learnt the following:
- About air craft control.
- About different landing systems at the airport..

SKILLS

C++, MATLAB, Proteus, Multisim, Python, Electronic Workbench, Microsoft Office Tools, Processing 2.2.1

PUBLICATIONS

1. **A. Channa**, N. Popescu, and N. Malik, "Robust Technique to Detect COVID-19 using Chest X-ray Images" (Accepted in International Conference on e-Health and Bioengineering EHB 2020 - 8th Edition 29-30 October 2020, Iasi - WEB CONFERENCE - Romania).
2. **A. Channa**, N. Popescu, and V. Ciobanu, "Wearable solutions for patients with parkinson's disease and neurocognitive disorder: A systematic review," *Sensors*, vol. 20, no. 9, p. 2713, 2020.
3. M. Ivanescu, N. Popescu, D. Popescu, **A. Channa**, and M. Poboroniuc, "Exoskeleton hand control by fractional order models," *Sensors*, vol. 19, no. 21, p. 4608, 2019.
4. **A. Channa**, A. Baqai, and R. Ceylan, "Design and application of a smart diagnostic system for parkinson's patients using machine learning,"
5. **A. Channa**, R. Ceylan, and A. Baqai, "Machine learning for analyzing gait in parkinson's patients using wearable force sensors," in *International Conference on Intelligent Technologies and Applications*, pp. 548-559, Springer, 2018.
6. **A. Channa**, S. M. A. Shah, A. Patoli, A. R. Memon, and M. A. Teevno, "A hierarchical approach to home energy management systems," *Indian Journal of Science and Technology*, vol. 9, p. 47, 2016.

ACHIEVEMENTS

1. Scholarship to take up double PhD Degree within the project A-WEAR. This project has received funding from the European Union's Horizon 2020 (H2020) Marie Skłodowska-Curie Innovative Training Networks H2020-MSCA-ITN-2018 call, under the Grant Agreement no 813278.
2. Won startup competition named RINU with funding of 600,000 PKR/ for a project named "Monitoring Sleeping Postures using Pressure Sensing Mat"
3. Scholarship to take up master thesis in Selçuk University, Konya, Turkey under the framework of Mevlana Exchange Program (2017-2018)
4. 3rd prize in IEEE ICUBE Techno iDEAS held in Isra University, Pakistan (Oct, 2013)

LANGUAGES

ENGLISH: Fluent

REFERENCE

1. Name: Nirvana Popescu
Position: Professor
Organization: University of POLITEHNICA Bucharest, Romania
Email: nirvana.popescu@upb.ro
Relationship: Supervisor
2. Name: Rahime Ceylan
Position: Assistant Professor
Organization: Selcuk University, Konya Turkey
Email: rpektatli@selcuk.edu.tr
Relationship: Supervisor
3. Name: Attiya Baqai
Position: Assistant Professor
Organization: Mehran University of Engineering and Technology, Jamshoro Pakistan
Email: attiya.baqai@faculty.muet.edu.pk
Relationship: Supervisor