

Ayoob Salari

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CAREER OBJECTIVE

I have an upstanding experience in electrical engineering from my work and education in communication systems, electrical engineering. Furthermore, I possess a strong and deep-seated interest in research and development. I enjoy networking with people. I love learning and gaining experience and welcome any direct rebuke or advice. Accordingly, your company closely matches my areas of interest, and I would like to be a positive addition to your team as a graduate electrical engineer.

EDUCATION

The University of Sydney <i>Ph.D., Electrical Engineering</i>	Sydney, Australia 2019 – 2023
Korea Advance Institute of Science and Technology (KAIST) <i>M.Sc., Electrical Engineering</i>	Daejeon, Republic of Korea 2014 – 2016

EXPERIENCE

Casual Academic <i>The University of Sydney</i>	2019 – 2023
<ul style="list-style-type: none">• Tutoring Numerical Solution with MATLAB• Tutoring IoT for Critical Infrastructure• Tutoring Antennas and Propagation• Tutoring Error Control Coding	
Associate Research and Development Engineer <i>Future Wave Ultra Tech.</i>	2017 – 2019
<ul style="list-style-type: none">• Developing Radio Patrol software which is an intelligent mobile network performance analysis and monitoring system capable of automatically connecting to multivendor OSS data sources and collecting raw data, data aggregation, filtration, custom KPI calculation, event handling, and alarm generation scenarios, and providing multiple and advanced cellular network optimisation reports.• Building quality of experience monitoring platform in the telecom network, capable of emulating the experience of a real user by executing different interactions with the fixed and mobile networks and collecting data on the network's performance from the user or customer experience perspective.	

PROJECTS

Enhancing 5G IoT Communications through Machine Learning <i>MATLAB, Python</i>	2019 – 2023
<ul style="list-style-type: none">• Analyzed the performance of wireless communication systems by using novel machine learning techniques.• Developed an unsupervised learning algorithm based on a Gaussian mixture model to sense IoT devices and detect and process their signals.• Created a novel model for distributed learning in noisy environments, applied to image classification using Convolutional Neural Networks (CNNs)	
Improving the performance of Wireless Chargers <i>MATLAB, SIMULINK</i>	2014 – 2016
<ul style="list-style-type: none">• Determined the distance range in which wireless chargers are capable of charging the batteries of cellphones.• Proposed two algorithms to minimize the charging time of wireless chargers.• Designed and patented a new circuit for wireless chargers.	

TECHNICAL SKILLS

Programming Languages: MATLAB, Python
Frameworks: Microsoft Office, Simulink, SPICE, LaTeX, Photoshop, ThingSpeak, ThingsBoard, Node-Red, WSO2, CellSens, CST, HFSS, Proteus, Multisim, Orcad, Network Packet Tracer

TRANSFERABLE SKILLS

Individual Level: Ethical, Open to rebuke and advice, Frank, Open to new knowledge, Keen for new experiences

Team Level: Effective communication, Leadership, Teamwork, Dedication

HONORS AND AWARDS

The University of Sydney Postgraduate Scholarship (Ph.D.)	2019 – 2023
University of Sydney Postgraduate Research Support Scholarship (PRSS)	2022
KAIST Postgraduate Scholarship (M.Sc.)	2014 – 2016
Semi-finalist in National Mathematics Competitions	2008

VOLUNTEER

Construction project volunteer in South Korea

Volunteer

Jan. 2016 – Sep. 2016

Interact with the poor local residents of Daejeon city and help them to build or renovate their house.

Deliver charcoal bricks in South Korea

Red Cross volunteers

Jan. 2015 – Dec. 2015

Relay charcoal bricks to poor residents across the Daejeon city to help people who suffer from lack of home energy.

LANGUAGE SKILLS

Native or bilingual proficiency: English, Persian

Elementary proficiency: Arabic

REFEREES

Dr. Mahyar Shirvanimoghaddam

Mahyar.Shirvanimoghaddam@sydney.edu.au

Current Employer

Dr. Sarah Johnson

Sarah.Johnson@newcastle.edu.au

Current Employer

Dr. Reza Arablouei

Reza.Arablouei@csiro.au

Collaborator