

MOHAMED M. SOLOMON

Graduate Student in Computational Engineering

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WORK EXPERIENCE

Programing and Robotics Instructor

National Talents Company

July 2017 – Aug. 2017 Sabic HQ, KSA

Was a teacher and a facilitator in a summer program organized for high school students by Make Magazine, the first of its kind in Saudi Arabia.

INTERNSHIP

Building Management System Engineer

Saudi Services Co. Ltd.

June 2016 – Sept. 2016 Makkah Royal Clock Tower, KSA

Monitored, reported alarms and calibrated HVAC equipment at the Makkah Royal Clock Tower (the third tallest building in the world)

UNDERGRADUATE RESEARCH

Research Assistant

King Fahd University of Petroleum and Minerals

Feb. 2017 – May. 2017 Dhahran, KSA

Assisted in a paper studying the performance of a patch-based image denoising algorithm using collaborative support-agnostic recovery.

NOTABLE PROJECTS

Autonomous UAV

Development of an Automated UAV Security System

Jan. 2017 – Apr. 2017 Dhahran, KSA

Was the coordinator of a team developing an autonomous security UAV that aims detect and potentially take down intruding UAVs, the project required skills in image processing and sensor fusion.

Rubik's Cube Solver

Designing a super fast Rubik's Cube Solving Robot

Jan. 2016 – Apr. 2016 Dhahran, KSA

The project involved digital image processing and efficiently programming of microprocessors to solve the puzzle within 3 seconds.

PUBLICATIONS

An RFID Based Activity of Daily Living for Elderly with Alzheimer's

3rd EAI International Conference on Interoperability in IoT

Feb. 2018 Paris, France

- Raad M.W., Sheltami T., Soliman M.A., Alrashed M. (2018) An RFID Based Activity of Daily Living for Elderly with Alzheimer's. In: Ahmed M., Begum S., Fasquel JB. (eds) Internet of Things (IoT) Technologies for HealthCare. HealthyIoT 2017. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 225. Springer, Cham

EDUCATION

M.Sc. in Computational Engineering with emphasis on IT/DSP

Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

Oct 2017 – Present

B.Sc. in Electrical Engineering

King Fahd University of Petroleum and Minerals (KFUPM)

Sept 2013 – June 2017

LANGUAGES

English
German
Arabic
Turkish



MOST PROUD OF



Second Honors Degree

Graduated with second honors degree and a Graduation Rank of "Excellent" in my Bachelor



Initiating an SYP Congress

Was part of the Organizing Committee of the First Students and Young Professionals Congress in GCC

RELEVANT COURSEWORK

- Digital Signal Processing
- Digital Image Processing
- Digital Communication Electronics
- Information Theory and Coding (Audit)
- Computer Programming in C
- Discrete Structures I
- Architectural Photography

STRENGTHS

Good communication skills Teaching
Research Good presentation skills
Matlab Python LaTeX C C++
Raspberry Pi Linux Assembly

RELEVANT EXPERIENCES

Professional Photographer

Freelancer

📅 Oct. 2016 – Present 📍 Erlangen, Germany

- Specialized in architectural, portrait, and event photography.
- Also have volunteered to photograph many social events at KFUPM

Program Coordinator

IEEE KFUPM Student Branch

📅 Sept. 2016 – Jun. 2017 📍 Dhahran, KSA

- Organized seminars and workshops about IoT and Robotics.
- Was a member of the Program Committee organizing the Students and Young Professionals Congress in Bahrain May 2017.

The Quest 2016

Unilever

📅 Nov. 2016 📍 Jeddah, KSA

- Was nominated to the second stage of The Quest by Unilever 2016
- Participated in a case competition coordinated by Unilever and my team was one of the top three winning teams in the competition

The Entrepreneurial Emerging Leaders (EEL) Program

Entrepreneurship Institute at KFUPM

📅 Feb. 2017 – May 2017 📍 Dhahran Techno Valley, KSA

- Was accepted to attend the EEL program and learned methodical ways of becoming a successful entrepreneur

Teaching Assistant

KFUPM

📅 Sept. 2014 – May 2017 📍 Dhahran, KSA

- Was a part-time teaching assistant (grader) at my university for courses in which I had received A+

REFEREES

Assoc. Prof. Mohamed A. Deriche

@ mderiche@kfupm.edu.sa

✉ P.O. 1427, KFUPM, Dhahran-31261, KSA

Department of Electrical Engineering at KFUPM

Dr. Mohammed Wasim Raad

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✉ P.O. 1874, KFUPM, Dhahran-31261, KSA

Department of Computer Engineering at KFUPM

ACTIVITIES

Newtonian Telescope Designer

FabLab Dhahran

📅 2017 📍 Dhahran

Was nominated to be a part of a team designing the second largest Newtonian telescope in KSA.

Member of the Scientific Committee

KFUPM Electrical Engineering Club

📅 2015 – 2017 📍 Dhahran

Supervised two projects sponsored by the club; a laser cutter made out spare printer parts, and a remote controlled car toy using Arduino microcontroller.

Film Critic

Noon Post

📅 2016 📍 Dhahran

Published two long reviews on NoonPost, and several other short review on Social media outlets including Facebook and Twitter.

VOLUNTEER EXPERIENCE

Event Organizer

Amnesty International

📅 2017 – 2018 📍 Erlangen, Germany

Was a volunteer photographer during the annual KFUPM Volunteering Day covering issues about social services

Environmental Awareness

Alnabta Group

📅 Nov. 2016 📍 Jeddah, KSA

Volunteered with a non-profit organization to teach children about environmental issues.

Photographer

KFUPM Volunteering Day

📅 Feb. 2016 📍 Dammam, KSA

Was a volunteer photographer during the annual KFUPM Volunteering Day covering issues about social services