

# 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 leading trainer and a facilitator in a summer program organized 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

## 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

## LANGUAGES

English  
German



## STRENGTHS

Matlab    Python    LaTeX    C    C++  
Raspberry Pi    Linux    Assembly

Teamwork    Research    Eye for detail  
Good presentation skills    Perfectionist

## 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

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

Department of Electrical Engineering at KFUPM

#### Dr. Mohammed Wasim Raad

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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