

# ONEAL M. ABDULRAHIM

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## OBJECTIVE

Seeking an internship for Summer 2018 in the field of Computer Engineering, namely software development or information technology.

## EDUCATION

**Texas A&M University, Dwight Look College of Engineering**

College Station, Texas

**Bachelor of Science in Computer Engineering - Computer Science track (CECN)**

May 2019

- Major GPR: 3.54 Cumulative GPR: 3.47

## COURSEWORK

### Computer Engineering

- *Programming Languages*: exploring design space and idiomatic uses of functional and object-oriented languages (Haskell & Java)
- *Data Structures & Algorithms*: implementing & theory of arrays, vectors, linked lists, queues, stacks, trees, skip lists, hashes, and graphs
- *Programming Design Concepts*: using language and version-specific features, GUI, and front-end development using C++, FLTK
- *Test Driven Development*: creating and using rigid code tests, exercising agile methodology and Git using Python

### Electrical Engineering

- *Signals & Systems*: evaluating signal convolution, analysis of Fourier and Laplace transforms for systems in time and frequency domains
- *Digital Systems Design*: constructing electric circuits and gate-level diagrams, (low/high-pass filters, rectifiers, adders, flip-flops, ALUs)
- *Electric Circuit Theory*: simulating circuit behavior and design with Multisim, PSpice, Verilog and VHDL (Vivado)

## ACTIVITIES & ORGANIZATIONS

### Robotics Student Research

Summer 2017

- Implementing of control, feedback, and dynamic linearization using Raspberry Pi and iRobot Create 2 programmable robot system.

### IEEE TAMU TEC Senior Officer

August 2016 - Present

- Leading the branch's Technical Education Committee to create and host various programming, microcontroller, and 3D printing workshops and lectures targeting EE and CE majors, industry-related topics in preparation for professional settings.

### IEEE TAMU Hardware Hack-a-thon Coordinator

August 2016 - Present

- Ongoing team effort for the hosting and execution of IEEE TAMU's landmark event and make-a-thon. Investment in organization of logistics, marketing, sponsorships, materials (including microcontrollers, electrical components, motors), and accommodations.

### Geek Squad Academy Volunteer

June 2016 - Present

- Bringing technology and demonstrations of new consumer products such as cameras, laptops, tablets, headphones, and electrical components to underrepresented middle-school to high-school aged students. Mentorship and continuous academic content creation.

### O'Nealio Blog (onealio.com)

November 2014 - Present

- Showcasing of personal interests, projects, and workshops on personal website. Front-end and look built and maintained from scratch.

## EXPERIENCE

### Advanced Repair Agent (ARA)

November 2012 - Present

### Geek Squad

Houston, Texas

- Administrating ~100+ client device (phones, tablets, laptops, desktops) repairs weekly, minimizing turn time and maximizing NPS
- Usage of dozens of industry tools, applications, and operating systems (antivirus, Windows 7, 8, 10, MacOS/OSX, Android, iOS)
- Driving daily sales and sales goals, organization of client information and data, and frequent management of contacting the client
- Translating technical fixes done on client units and their general IT-related issues to understandable terms with little jargon
- Providing technology education, demonstrations, and tutorials of cutting-edge consumer-grade products on or near release dates

## HONORS & AWARDS

### Texas Aggie Achievement Grant

May 2017 - Present

### College of Engineering Merit-Based Grant

August 2016 - Present

### Dwight Look College of Engineering Distinguished Student

May 2016 - Present

### Employee of the Month

June 2013, July 2017

## TECHNICAL SKILLS

- *Programming Languages*: C++, Python, Java, JavaScript
- *Markup & Web*: HTML5, CSS
- *Simulation*: Multisim, Verilog & VHDL (Vivado)
- *Microcontrollers*: RPi, Arduino, Freescale, Launchpad
- *Engineering*: Gantt & WBS Planning, binary exclusion, systematic fault isolation
- *Software*: MATLAB, LABView, Microsoft Office 2016, 365 (Word, Excel, PowerPoint, OneNote, Outlook, Visio)
- *Foreign Language*: Fluent in spoken Farsi/Persian (Ajam dialect)