ONEAL M. ABDULRAHIM

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OBJECTIVE

Seeking relevant roles in the Computer Engineering industry, namely tech solutions, information technology, and front-end development.

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*

- Cumulative GPR: 3.48

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

LEADERSHIP & ACTIVITIES

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 over 20 annual 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*

- Leading 2 to 3 technology classes and demonstrations of new consumer products such as cameras, laptops, tablets, headphones, and electrical components to underrepresented middle-school to high-school students. 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.

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

- *Digital Integrated Circuit Design (VLSI):* calculating & optimizing transistor-level schematics, metal layouts, and CMOS design
- *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)

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)