Ashkan Vafaee

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Education

Bachelor of Science, Electrical and Computer Engineering **May 2019**
The University of Texas at Austin
Cumulative GPA: 3.73/4.00

Related Coursework: Software Design and Implementation (C, C++, Java data structures) | Algorithms | Computer Architecture | Embedded Systems (ARM Assembly) | Circuit Theory | Linear Systems and Signals

Experience

Product Test Engineer Intern, NXP Semiconductors **5/17 – 8/17**

- Independently completed 4 software projects to increase quality and efficiency of test engineering processes
- Improved quality of datalog difference reports by developing Ruby script to filter 94% of unimportant data
- Automated storage of device flash memory contents by creating a VBA tool internal to a test program
- Designed VBScript program to more efficiently identify device specification sheet changes
- Optimized device performance evaluations by automating targeted test data extraction process

Volunteer Assistant, Texas Museum of Science and Technology **8/16 – 5/17**
Software Development – **[**https://github.com/ashkanvafaee/Volunteer-Log**]**

- Creation of Visual Basic application to track volunteer member data using C++
- Designed algorithm to programmatically store user data to Excel spreadsheets and provide statistical feedback
- Ensured compatibility across diverse systems through intensive debugging and utilization of customized APIs
- Implemented graphical user interface for intuitive operation and seamless functionality

Embedded Systems Game Design Project – [https://github.com/ashkanvafaee/Game**]** **1/16 – 5/16**

- Development of Pac-Man Classic on a real-time embedded system using a microcontroller and LCD display
- Implemented user controls using an ADC and concurrent audio functionality with a 4-bit DAC
- Rapidly prototyped and debugged new capabilities including movement logic, ghost behavior, and game difficulty
- Used C and assembly language to maximize performance allowing for stable framerates and low memory usage
- Rated best in class section out of over 40 other designs

Skills

Proficient in C, C++, Ruby, Visual Basic, VBScript, VBA, Java, and ARM assembly language
Experience with MATLAB, Linux, HTML, CSS, and JUnit testing
Experience with Multimeters, Oscilloscopes, Soldering, and Circuit Analysis
Software development on Keil µVision including usage of Keil's logic analyzer and simulators, Microsoft Visual Studios
Conversational Farsi
Microsoft Office proficiency

Accomplishments

Recipient, University of Texas at Austin Presidential Achievement Scholarship, 2015-2017
Recipient, Iranian Scholarship Foundation Undergraduate Scholarship, 2015-2017
President/Founder, Anderson High School Table Tennis Club, 2013-2015
Volunteer, Capital Area Food Bank, 2016-Present