

Ashkan Vafaei

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Education

Bachelor of Science, Electrical and Computer Engineering

May 2019

The University of Texas at Austin

Cumulative GPA: 3.76/4.00

Related Coursework: Software Design and Implementation | Algorithms | Concurrent and Distributed Systems | Digital Logic Design | Computer Architecture | Embedded Systems | Circuit Theory | Linear Systems and Signals

Experience

Product Test Engineer Intern, NXP Semiconductors

5/17 – 8/17

- Independently completed four 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, Texas Museum of Science and Technology – [github.com/ashkanvafaei/Volunteer-Log]

8/16 – 5/17

- Developed 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 multiple systems through intensive debugging and utilization of customized APIs
- Implemented graphical user interface for intuitive operation and seamless functionality

Embedded Systems Game Design Project – [github.com/ashkanvafaei/Game]

1/16 – 5/16

- Created 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 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, Logic Analyzers, Simulators, and Circuit Analysis

Software development on Eclipse, Microsoft Visual Studios, Linux, and Keil uVision

Conversational Farsi

Microsoft Office proficiency

Accomplishments

Recipient, University of Texas at Austin Presidential Achievement Scholarship, 2015-2018

Recipient, Iranian Scholarship Foundation Undergraduate Scholarship, 2015-2018

Recipient, International Baccalaureate Diploma, 2013-2015

Webmaster, University of Texas at Austin IEEE Computer Society, 2017-2018

President/Founder, Anderson High School Table Tennis Club, 2013-2015