

# Ashkan Vafaei

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## Education

### Bachelor of Science, Electrical and Computer Engineering

May 2019

The University of Texas at Austin

Cumulative GPA: 3.759/4.00

**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

### Software Engineering Intern, Texas Instruments

5/18 – 8/18

- Developed python scripts to automate system firmware production for latest SoC device
- Conducted unit testing of system firmware using simulation software and created failure reports
- Designed a debug translation tool using python to help customers self-analyze application issues
- Utilized Linux and Git version control system under Agile development principles for all software development

### 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

### 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 Java, C, C++, Python, Ruby, Visual Basic, VBScript, VBA, 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