‍‍Matthew Morscher

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Education

BAChelors of science | Rose-hulman institute of technology | may 2018

**Major**: Computer Engineering **Minor**: Computer Science

**GPA**: 3.45

* Current coursework: High-Speed Digital Design, Discrete-Time Control Systems, Engineering Design I

Experience

Software engineering intern | Nextgear capital | june 2016 – August 2016

* Performed full-stack software development in an Agile environment during two week sprints.
* Implemented numerous user interface enhancements related to list management, sorting, database updates, and credentials related to NextGear accounts
* Completed numerous website UI enhancements
* Performed bi-weekly sprint demos to the software development team and entire business side of the company

IT Network intern | the scotts miracle-gro | june 2015 – August 2015

* Configured and troubleshot remote site network devices
* Traveled to perform onsite installation and debugging of network devices
* Performed budget and end-of-life analysis for Cisco devices
* Configured and installed remote network camera and utilized a Raspberry Pi to enable the camera feed to be viewed in a cost-effective way on a TV
* Developed website notification tool using HTML, CSS, and JavaScript as part of an intern project

Advanced Microcomputers | Rose-hulman | february 2017

* Implemented analog-to-digital converter on Pynq-Z1 board
* Took input from GoPro and sampled at 1MSPS to recreate a grayscale digital image

Computing in a global society | Rose-hulman | September 2016 – JANuary 2017

* Revolutionized the Swedish healthcare system for the year 2025
* Worked remotely with Gannon University (Erie, PA) and Uppsala University (Uppsala, Sweden) in two time zones

Introduction to Embedded Systems | Rose-hulman | february 2016

* Performed research on PIC Microcontroller (PIC16F18875) abilities
* Integrated and configured 5 speakers onto a single PIC Microcontroller to play up to 5 different tones

Skills & Abilities

Software

* HTML, JavaScript, AngularJS, CSS, Java, C, Python, MATLAB, Office Suite, Linux
* Alloy, Yices, Yakindu, TLA+, PlusCal
* Agile Methodology

hardware

* Programmable Logic Controllers/Automation, Circuits, PIC Microcontrollers, Digilent Waveforms

Network Devcies

* Cisco Network Administration, OOB, Routers, Switches