Steven Varada

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EDUCATION

Rochester Institute of Technology - May 2022
Major**:** Bachelor of Science, Computer Engineering Technology GPA: 3.38/4
Minors: Chinese, and Web Development
Attained Dean's list five consecutive semesters, spring 2019 through spring 2021

TECHNICAL SKILLS

Hardware: Cyclone V FPGA, Arduino Microcontroller, STM32F411 Microcontroller, Signal Generator, Oscilloscope
Languages: Java, **Python**, **VHDL**, **C++**, **C#**, **Arduino C**, Assembly, HTML5/CSS(SASS), **JavaScript**, PHP, FreeMarker, MATLAB
Software: Liferay DXP (Enterprise software), IntelliJ, CLion, Eclipse, Maven, BootStrap, MySQL, ASP.Net, ModelSim, **Intel's Quartus, Intel's System Integration Tool (Platform Designer), Intel NIOS II Core**, FreeRTOC, NI-Multisim
Other: Spanish (Fluent: Speaking, Reading, Writing), Chinese (Intermediate: Reading & Writing, Basic: Speaking)

PROJECTS

Collision Prevention Robot January - May 2018
- Accomplished collisions prevention feature by calibrating the ultrasonic sensor, gyroscope, and wheel motor to move automatically out of the way of incoming objects when standing still and go around obstacles when moving
- Programmed Arduino Uno in code, C, to allow for Bluetooth communication between the robot and a phone

Embedded High & Low Pass Filter on FPGA May 2021
- Developed **High and Low pass filters** using **VHDL code** to filter audio samples using **Intel's Quartus**
- Packaged the **VHDL** code onto an **FPGA board** to work with Eclipse, **C code**, to read and load audio samples into the SDRAM, determine the state of **low or high filtering**, and output the filtered audio samples through the audio component
- Maintained high standards of filtering by double-checking **VHDL signals** on ModelSim using test benches

Dependency Injection ISTE Website May 2021
- Manipulated external website endpoint data assembled a dynamic website using ASP.Net Core MVC Application to
- Modified JSON array endpoints to fit **C#** object structure
- Simplified the process of obtaining data from the external website by using dependency injection to program to the interface instead of programming to an implementation

Unix Tutorial Website October - December 2020
- Established a Unix tutorial website using **JavaScript**, PHP, HTML5/CSS, and MySQL leading to features of comments, video tutorials, modular website pages, dynamic animations, and web design that was intuitive
- Completed the project two weeks ahead of schedule using project management concepts for my team of five

EXPERIENCE

Full Stack Developer, CoBank – Denver, Colorado **Coop** May - August 2021
- Learned a new API including Liferay, Java, Free Marker, Gradle, and Spring MVC in two weeks to create an intuitive website for the Ambassador Program of CoBank
- Futureproofed the website by implementing complex portlets from CoBank's websites for easy modification of code
- Simplified the front end of the website with the use of Liferay components for coordinators of the Ambassador Program to modify the website with little knowledge of web development

Summer Learning Academy Extern, AT&T **Extern** June - July 2020
- Gained insights and advice on business, leadership, and career from business executives and recognized experts
- Completed 80 hours of entry-level training in human resources, finance, advertising, media and technology, communication, and leadership

Higher Education Opportunity Program – Rochester, NY **Tutor** August 2020 - Present
- Tutored two struggling tutees four to eight hours a week to achieve Dean's list
- Taught a tutee studying and work strategies to go from a C- in a fourth-year class to a B+