RAPHAELLE

MARCIAL

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Rutgers University, New Brunswick, New Jersey
B.S. in Computer Engineering

RELEVANT COURSES

EDUCATION

Hardware/Software Design of Embedded Systems - 14:332:493

Fall 2017

May 2018

• Programming Methodology II - 14:332:351

Fall 2016

Linear Systems and Signals - 14:332:345

Fall 2016

TECHNICAL SKILLS

• Languages: C/C++, Assembly, VHDL (basic), MATLAB, HTML, CSS, PHP, MySQL

Tools: Git, PSPICE

- Equipment: Arduino, Raspberry Pi, Oscilloscope, Signal/RF Generators, Multimeter
- Operating Systems: Windows, Linux elementary OS/Ubuntu, macOS

RELATED PROJECT Restaurant Automation for Software Engineering - 14:332:452

Spring 2017

- A 7-member project that involves developing a demonstrable web application to produce more efficient operations in medium-sized restaurants
 - o Planned and executed lifecycle steps for developing the complex software product
 - Utilized traditional and web programming languages such as Java, SQL, and PHP
 - o Learned modular design of software and documented the design using symbolic representations via UML

RESEARCH

Rutgers Solar-to-Vehicle (S2V) Project

May 2016 - Present

Aresty Research Assistant

- Implemented a surveillance system using Python scripts in Raspberry Pis connected to solar modules, solar panel charge controllers, and rechargeable batteries to evaluate power consumption in electric vehicle charging stations
- Developing a website for electric vehicle users to view when their cars are finished charging, and whether a charging spot is occupied by another user
- Creating a business model for Rutgers University New Brunswick in order to provide additional charging stations for a campus with more than 50% of the population being commuters

LEADERSHIP

Rutgers Electronics Club

January 2017 - Present

Co-Founder

- Created a club that allows beginners in electronics to get hands on experience in Arduino and Raspberry Pi
- Assisting students learn through weekly interactive projects
 - Walking through hardware setup and coding implementation
 - Checking groups' progress and troubleshooting when necessary
- Writing documentation involving attendee feedback that will be presented to the Engineering Governing Council to make the club official

Engineers Without Borders - Guatemala

January 2015 - September 2016

Monitoring Lead

- Led members in analyzing about 100 survey results involving living costs and satisfaction levels from the Guatemalan civilians using multi bar charts in MS Excel
- Designed a new survey to be utilized in the next post-monitoring trip to evaluate the organization's progress in Guatemala
- Created and presented posters university competitions throughout the northeast

WORK EXPERIENCE Golf

Golf Galaxy, Paramus, New Jersey

June 2015 - September 2016

Sales Associate

- Generated about \$25000 daily during golf season while collaborating with the store merchandiser to update store displays
- Assisted 200 customers daily with purchasing apparel, clubs, laser rangefinders, and GPS watches

ACTIVITIES

Society of Women Engineers (SWE)

September 2014 - September 2015

Mentee

- Collaborated with members in deciding weekly meeting topics
- Partnered with a mentor who eased the challenging transition from high school to college

Stevens Institute of Technology, Hoboken, New Jersey

July 2013 - August 2013

Student

- Experimented with electroencephalograms to determine how they could be used in medicine as part of the Steven Summer Pre-Med Engineering Program
- Presented research with 3 other students about the group's experience with the Emotiv Student Development Kit to peers and supervisors