JOSE RAMIREZ-VILLA

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Objective: A bilingual college graduate seeking position in software engineering or full stack development

Education:

Virginia Commonwealth University - *Richmond, VA* *May 2017*

Bachelor of Science in Computer Engineering

Relevant courses:

Development/Programming: ●C/C++ ●Java ●Android Studio ●Software engineering ●Embedded Systems Programming

Computer Engineering: ●Digital Logic Digital Systems ●Computer Organization & Design

Electrical Engineering: ●Electrical Circuits ●Power System Analysis ●Microelectronics ●Signals & Systems ●Microfabrication

Professional/Business: ●Economics of Product Development ●Speech for business and professionals ●Macroeconomics

Piedmont Virginia Community College - *Charlottesville, VA* *May 2013*

Associates of Science in Computer Science

Career Studies Certificate in Computer and Network Support Technologies

Skills:

Programming*:* ● HTML ● CSS ● JavaScript ● Java ●MEAN stack - (Mongodb, Expressjs, Angularjs/2+, Nodejs)

Tools*:* ● Sublime Text ● Git ●Npm ●Bootstrap4 ●Docker ●Jenkins

Projects | Assignments:

Personal Website Project

Created personal resume website hosted on github.com to showcase my skills using web technologies & projects below

Senior Design Capstone Team Project (Sponsored by NASA Langley Research Center) *May 2016 – Spring 2017*

Remote Aerial Mapping Spectrometer (RAMS):

In a team of four to design a low weight, low cost, self-powered spectral mapping environmental monitoring sensor payload for mounting on unmanned aerial vehicles. RAMS was designed to make environmental data richer and more cost-effective than most current techniques used by environmental scientists.

- Tasked with designing and 3D printing payload parts
- Assisted in the setup of Raspberry Pi microcomputer to connect to LIDAR & Spectrometer sensors
- Assisted in programming and debugging sensors and 3-axis gimbal controller + IMU
- Project tasks included participation in design, budgeting, specifications, time-management, sponsor meetings, and presentations.

-Microcomputer Systems Project: Implemented an embedded system capable of autonomously navigating a maze, following a black line, and drawing on a canvas – used C & Assembly Language

-Advanced Engineering Programming Assignment: NMEA GPS Sentence Parser implemented as a state machine – using C++

Work Experience:

Jewett Automation, *Controls Engineer Intern* *April 2015 – August 2015*

Helped in the assembly, programming, and successful deployment of an industrial automated O-Ring spout assembler, for the MOEN faucet company, that fitted faucet parts with O-ring spouts at a rate of two parts a second.

- Updated existing AutoCAD Electrical drawings for projects
- Setup Keyence IV-Series Vision Sensors
- Modified existing RSLogix5000, Compact Logix PLC programs
- Programmed Allen Bradley (HMI - Human machine interfaces)

Accomplishments:

Recipient of VCU'S Sternheimer award – A prestigious grant of $1800 awarded to our team for exhibiting outstanding innovation and entrepreneurship on (RAMS) Senior Capstone Project