Vincent Pacelli

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EDUCATION

Candidate for B.Sc. in Electrical Engineering (Expected Graduation May 2016)
Candidate for M.Sc. in Robotics (Expected Graduation May 2017)
University of Pennsylvania, Philadelphia, PA
Cumulative GPA: 3.35 | STEM GPA: 3.37
Minor: Computer Science

PROJECTS

Mission Optimizer

- A customizable embedded systems program that conducts long-term UAV planing and adjustments mission planning using Bayesian methods. Developed at NASA Langley; White paper forthcoming.
- Skills Used: MATLAB, C, C++

Smart Blox (http://pacel.li/smartblox.html)

- A low-cost building block platform that is capable of dynamically interacting with other media in a smart living room environment like that in PennâĂŹs xLab.
- Skills Used: Programming with C/C++, Product Design, and Embedded Systems Development, EagleCAD circuit layout.

NeoNur (http://pacel.li/neonur.html)

- An embedded medical system for researching and monitoring the development of infants.
- Skills Used: C, C++, C#, and MATLAB, Embedded Systems Development, Digital Signal Processing

ProtoDrive 2.0 (http://pacel.li/protodrive.html)

- A tool for prototyping control systems for electric vehicles which features a scaled model of an electric vehicleâĂŹs power system.
- Skills Used: Embedded Systems Development, C, C++, Power Circuit Design.

Gambo (http://pacel.li/gambo.html)

- A Java-based Game Boy emulator capable of running as a desktop application or a JavaScript program on a webpage
- Skills Used: Java, Computer Architecture.

MISC. SKILLS

Python, Linux, EagleCAD, Multisim, Simulink, HCS12 and ARM-based microcontrollers, Xilinx FPGAs, Swift, Basic Web Development, LaTeX

EMPLOYMENT

NASA Langley Research Center	Summer 2015
Teaching Assistant (Embedded Systems)	Spring 2015 - Present
SUNFEST Fellow	Summer 2014
Teaching Assitant (MTSI Summer Program at UPenn)	Summer 2014
Teaching Assistant (Digital Logic)	Spring 2014