

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 <ul style="list-style-type: none">• A customizable embedded systems program that conducts long-term UAV planning and adjustments mission planning using Bayesian methods. Developed at NASA Langley; White paper forthcoming.• <u>Skills Used</u>: MATLAB, C, C++ Smart Blox (http://pacel.li/smartblox.html) <ul style="list-style-type: none">• A low-cost building block platform that is capable of dynamically interacting with other media in a smart living room environment like that in Penns xLab.• <u>Skills Used</u>: Programming with C/C++, Product Design, and Embedded Systems Development, EagleCAD circuit layout. NeoNur (http://pacel.li/neonur.html) <ul style="list-style-type: none">• An embedded medical system for researching and monitoring the development of infants.• <u>Skills Used</u>: C, C++, C#, and MATLAB, Embedded Systems Development, Digital Signal Processing ProtoDrive 2.0 (http://pacel.li/protodrive.html) <ul style="list-style-type: none">• A tool for prototyping control systems for electric vehicles which features a scaled model of an electric vehicles power system.• <u>Skills Used</u>: Embedded Systems Development, C, C++, Power Circuit Design. Gambo (http://pacel.li/gambo.html) <ul style="list-style-type: none">• A Java-based Game Boy emulator capable of running as a desktop application or a JavaScript program on a webpage• <u>Skills Used</u>: Java, Computer Architecture. | |
| MISC. SKILLS | Python, Linux, EagleCAD, Multisim, Simulink, HCS12 and ARM-based microcontrollers, Xilinx FPGAs, Swift, Basic Web Development | |
| 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 |