Robert G. Gambee

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Professional Experience

Formlabs, Somerville, MA — July, 2015 to Present
Print Process Engineer

- Research and develop new technologies to keep Formlabs at the forefront of the 3D printing industry
- Coordinate with other teams to implement and validate new features
- Optimize printing process to increase quality, reliability and speed by improving motor moves and exposure routines
- Interview job applicants to assess their problem solving skills

Skills and Coursework

Programming and Computer Skills

- Python, C++, MATLAB, Java, SQL, HTML, CSS, OpenSCAD, Shell Scripting
- Git, Unix and Windows Command Lines, SolidWorks, LabVIEW, COMSOL, LaTeX

Selected Coursework

- Numerical Methods in Engineering, Advanced Transport Phenomena, Fluid Mechanics
- Advanced Systems Engineering, Autonomous Robot Navigation, Microprocessor Systems

Education

Harvey Mudd College, Claremont, CA
Bachelor of Science in Engineering with High Distinction — May, 2015

- GPA: 3.8
- Inducted into Tau Beta Pi, national engineering honor society
- Dean's List — 2012 to 2015
- Advised fellow students on weekly Materials Engineering homework assignments — 2014 to 2015

Projects

SpaceX, Hawthorne, CA & Harvey Mudd College — 2014 to 2015
Recoverable Flight Data Recorder (5 person team)

- Designed housing and selected materials to protect electronics from rocket explosion
- Built and tested prototypes according to SMC-S-016 and other specifications
- Contributed to software for receiving information over UDP and saving to SD card

Academic Research, Harvey Mudd College — 2014 to 2015
Gas Permeation Across Nanocomposite Polymer Membranes (5 to 8 person team)

- Performed gas permeation experiments on synthesized membranes
- Ran and analyzed molecular simulations containing over ten thousand atoms each
- Wrote grant proposal for Amazon EC2 resources that decreased runtime by an order of magnitude

Sandia National Laboratories, Albuquerque, NM & Harvey Mudd College — 2013 to 2014
Measurement of Barium Titanate Nanoparticle Permittivity (5 person team)

- Developed analytical and numerical models for interpretation of experimental data
- Presented work at Materials Research Society meeting as invited speaker
- Project findings were later submitted to several scientific journals for publication