# Robert G. Gambee

Portfolio: https://rgambee.github.io

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## Professional Experience

**Formlabs**, Somerville, MA                                                July, 2015 to Present
*Systems Integration Engineer*
- Research and develop new technologies to keep Formlabs at the forefront
  of the 3D printing industry
- Design, prototype and integrate printer subsystems
- Coordinate with software and hardware engineers on other teams
  to implement and validate new features
- Interview job applicants to assess their problem solving skills

## Skills and Coursework

**Programming and Computer Skills**
- Python, C++, Go, MATLAB, Java, SQL, JavaScript, HTML, CSS, 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