

Jack Bott

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Education

BA Physics Bard College / BS Mechanical Engineering Columbia University *May 2014*

Dual Bachelor of Science and Bachelor of Arts Program

Bard College, Distinguished Scientist / The Fu Foundation School of Engineering and Applied Science

BA GPA 3.6 / BS GPA 3.4

Note: Degrees from Columbia University and Bard College were received at the same time. All academic requirements for Bard College were fulfilled in 2012 and all requirements for Columbia University were completed in 2014. Both degrees were contingent on each other and completed in 2014.

The University of San Francisco, San Francisco, CA

May 2010

Physics Major, 32 credits, University Scholar, GPA 3.7

Science and Engineering Experience

The Earth Institute at Columbia University, New York, NY

Energy Project Assistant

June 2014 - Present

Documented and retrofitted a “battery-less” AC pump controller intended for use in Senegal. Worked with a team to develop Python, C, and Go code for a Linux microcomputer. Aided in the development of an improved solar pump controller that automatically turns on and off three phase pumps based on sensor and meter data.

Columbia University, New York, NY

Senior Design

Academic Year 2013-2014

Worked with a group of four to design a self controlled rooftop gardening system that maintains a constant roof weight and irrigates crops according to need. Several design reviews, prototyping, and testing was all completed in preparation for a final design expo. Parts were manufactured to match Creo Parametric drawings using a 3D Printer, a Laser Cutter, and a three Axis CNC Milling Machine.

Bard College, Annandale-On-Hudson, NY

Sustainability Intern

Summer 2011

Constructed and managed the budget of a covered bike rack, organized and implemented a bicycle share program, and created a bicycle plan for Bard. Repaired over twenty abandoned bikes from junked parts. Worked independently on large projects while handling day to day tasks.

Technologies

PCT Creo, CadSoft Eagle, Lasar Cutting, Machining, 3D Printing

Python, HTML, C, Assembly, HTML, Go

VirtualBox, Linux, OSX, Windows

Accomplishments

Appalachian Trail Thru Hiker: 2185.9 miles in 95 days

Class of 2013

Member of the Bard Varsity Soccer Team

2010-2012

Distinguished Scientist at Bard College

2010-2012

University Scholar at USF

2009-2010