

# James Plianthos

## Applications Engineer - Solid Technologies Inc

Philadelphia, PA - Email me on Indeed: [indeed.com/r/James-Plianthos/1be215fb839c248c](https://www.indeed.com/r/James-Plianthos/1be215fb839c248c)

### WORK EXPERIENCE

#### Applications Engineer

Solid Technologies Inc - Blue Bell, PA - December 2015 to Present

- Responsible for the installation, maintenance, support, and troubleshooting of 3D printers and the associated software
- Designed, revised, and fabricated objects based on engineering diagrams provided by customers
- Designed, built, and implemented unique systems to increase efficacy in sub-par printing environments
- Worked with 3D structure light scanners to reproduce complex mechanical parts
- Performed technical demonstrations of 3D printing and scanning technologies for audiences of other engineers
- Completed projects and orders by utilizing an in-house 3D printer bank of over 10 machines

#### Bar Manager

Bareburger Philadelphia - Philadelphia, PA - August 2014 to February 2015

- Became the first bar manager at the Philadelphia location for Bareburger
- Drafted and implemented the craft beer, liquor, and wine selections
- Regularly tended bar and trained staff on beer, liquor, wine, and cocktail selection

#### Industrial Engineering Intern

High Concrete Group LLC - Denver, PA - April 2014 to October 2014

- Handled efficacy research and implemented new techniques and tools to streamline processes and cut costs
- Designed linear stock optimization program to eliminate rebar scrap
- Hired through Drexel University Co-Op Program
- Began work on a project to model cure times for one to three ton precast concrete in order to properly schedule and layer builds for maximum efficiency
- Routinely worked with the carpenters and masons on site in order to build molds and edifices for precast concrete edifices

### EDUCATION

#### B.S. in Mechanical and Biomedical Engineering

Drexel University - Philadelphia, PA

September 2011 to May 2015

### ADDITIONAL INFORMATION

#### SKILLS

- Proficient in multivariate differential equations and analysis of multivariate systems
- Adept understanding of statics and dynamics in two and three dimensions
- Broad knowledge of thermodynamic systems
- Skilled in the design and construction of MATLAB based simulations
- Experienced in AutoCad, ProEngineer, SpaceClaim, and several other modeling packages

- Thorough understanding of human physiology, biomechanics, and tissue physiology
- Well-versed in programming languages such as Python, C, Delphi, and several others
- Completed and excelled in entry-level plasma physics courses (ie [...])
- Aptitude for the design and construction of electrical circuits
- Displays critical thinking and problem solving skills, along with autodidactic tendencies
- Experienced in carpentry, masonry, and metal working
- Thorough understanding of 3D printing and scanning technologies (including, but not limited to FDM, DLP, SLS, SLA, MJF, CJP, structured light scanners, DLM, and pneumatic extrusion)