

LAURA SMARRITO

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EDUCATION

Drexel University Philadelphia, Pennsylvania
Bachelor of Science, Mechanical Engineering

June 2016
Dean's Scholarship, 2012-2016

Community College of Philadelphia Philadelphia, PA
Engineering Science and Process Technology

September 2010 to December 2012
Semester Honors, 2010-2012

PROFESSIONAL EXPERIENCE

Pacific Architects & Engineers ASC McMurdo Station, Antarctica
Carpenter I

October 2018 – Present

- Designed and built crates for shipping, storage, and material handling of scientific equipment and operational cargo for transport by loader, helicopter, aircraft, and cargo ship
- Worked with a team to set-up, maintain, and renovate temporary and semi-permanent structures in remote field camps in a variety of weather conditions
- Kept detailed design documentation and material usage records for each assigned project

Independent Contractor Philadelphia, PA
Home Renovation and Custom Millwork Technician

June 2005 – October 2018

- Designed and fabricated custom millwork using historic and unique materials and fixtures
- Renovated historic and newer construction residential and commercial spaces
- Planned and estimated project timelines, material costs, and labor requirements
- Coordinated with clients to develop solutions that fit their vision, their timelines and their budgets

Philadelphia Woodworks Philadelphia, PA
Shop Support Technician

May – September 2017

- Developed, adapted, and executed production methods to minimize production time and maximize product quality for a 75 unit custom millwork production run
- Designed and fabricated jig to reduce production time by 50%, increase product quality, and maximize material yield for a panel glue-up process
- Trained interns in production methods for custom millwork, lumber processing, and panel glue-ups

TE Connectivity Middletown, PA
Plating Development Team

April – September 2015

- Worked with an electrical engineer to design, assemble, and install a vision system to accelerate optimization of a novel selective precious metal plating process
 - Worked with lead plating technician to enhance a selective lubrication system by designing and implementing a quick purge system, and designing continuous agitation and contained application systems
 - Produced detailed CAD models and assembly drawings, and worked with 3D printers and machinists to produce functional prototypes
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SKILLS & TRAINING

Computer

PTC Creo 3.0/ Pro Engineer
SpaceClaim, AutoCAD
Microsoft Excel

Tools and Machinery

Hand & Power Tools
Industrial Woodworking Tools
Metal Machining Tools

Special Training

OSHA 30-Hour Training
OSHA Confined Space Training
OSHA Fall Protection Training