

# Daniel Lacey

459 State St. Albany, NY 12203 | email: dan@laceys.com | Cell: (518) 545-9276

## EDUCATION

**Clarkson University, Potsdam, NY**– expected May 2022

Bachelor of Science in Mechanical Engineering with a minor in Computer Science

- Dean's List, 3.681 GPA
- Relevant courses: Calculus 3, Differential-Equation, Statics, Electrical Sci, Material Sci, Adv. Math for Engineers, MATLAB, Computer Sci II, Algorithms and Data Structures, Strength of Materials, Rigid Body Dynamics, Intro to Engineering Design

**Hudson Valley Community College, Troy, NY** – Summer 2019

Course: Programming & Logic I

**Albany Academy High School, Albany, NY** – June 2018

- Cadet Corps: rose to the top leadership position of Major
- Albany Academy Alumni Award for Leadership
- Championship Teams
  - NY State Cross Country Championship competition
  - Sectional Championship teams: Cross Country, Indoor Track, Outdoor Track
- Model United Nations Club - Club President

## WORK AND VOLUNTEER EXPERIENCE

**Vara Safety** – summer 2019

Gained valuable experience in CAD, product design, prototyping/product development, and precision machining. Learned how to design products for manufacturing, basic CNC operation, how to manage RFQs (request for quotation) from overseas vendors and execute POs. I designed and personally made multiple parts/accessories that are in the process of being patented and developed several concept designs for future products.

**AWS Truepower** – spring 2018

My senior year project was under the mentorship of Dan Bernadett, the Chief Engineer of AWS, Truepower. AWS specializes in providing consulting services for wind and solar power projects. As part of the project I audited a graduate course Mr. Bernadett taught at Clarkson University and completed the assigned coursework. I learned about the development of wind projects from both a technical and business standpoint.

**Undergraduate Research** – spring 2020

For the spring semester of 2020, I will be conducting research under Ioannis Mastorakos into the manufacturing and testing of nanoscale metallic composites and nanofoams.

## TECHNICAL SKILLS

- Machine Shop Certifications: CNC, lathe, mill and basic shop tools
- MIG Welding Workshop: Modern Welding School, Schenectady, NY
- 3D Printing: experience with part design, printing, and printer maintenance
- Soldering experience
- CAD / 3D Modeling: AutoCAD Fusion 360, Solidworks, Autodesk Inventor
- Programming: C++, Java, Python, and MATLAB

## INTERESTS

Science, math, outdoor activities, running, hiking, rock climbing, paintball

## **Volunteer Work**

### **St Vincent de Paul Food Pantry – summer 2017 & 2018**

Worked three days per week, we provided services to over 500 families in my community. I had also regularly performed volunteer work at the food pantry throughout my high school years.