

Stefan Seidler

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Education

Bachelor of Science in Mechanical Engineering

May 2015

University of Massachusetts Dartmouth, Dartmouth, MA, GPA 3.1

Bachelor of Science in Health Science

May 2009

Boston University, Sargent College, Boston, MA

Experience

Manufacturing Intern

January 2015 – Present

Nye Lubricants, Fairhaven, MA

- Manufacturing military, aerospace, and medical grade lubricants for Eli Lilly, Veleritas, GM, Ford, & Boeing.
- Improving the manufacturing process by tracking steps, documenting, and creating routing forms.
- Designing the HMI for a PLC system controlling solenoid actuators that direct grease from vat to vat.

Design Engineering Intern & Boat Builder

November 2013 – Present

Peinert Boat Works, Mattapoisett, MA

- Manufacture rowing shells using composite materials including resin, gel-coat, fiberglass & Kevlar.
- Use vacuum bag infusion and hand layup techniques to mold various parts.
- Design and model parts in SolidWorks, and manage parts sales, inventory, and delivery.

Head Rowing Coach

September 2012 – November 2013

Phoenix Crew Club, Fairhaven, MA

- Lead practices with 10 to 25 students and adults including workout plans, fundraisers, and donations.
- Maintained existing and built new facilities, and purchased new equipment.

Academic Projects and Involvement *University of Massachusetts Dartmouth, Dartmouth, MA*

Senior Design Capstone Project

September 2014 - Present

- Designing ophthalmoscope with photo laser therapy beam to treat macular degeneration.
- Modelling parts in SolidWorks and 3D printing and testing optical properties to develop a working prototype.
- Sponsored by Schepens Eye Research Institute, Harvard University.

Heat Transfer Project

Fall 2014

- Designed a geotextile convective cooling system for roadways to reduce damage due to heat from the Sun.
- Used COMSOL to model heat transfer and fluid flow. Completed economic analysis to determine feasibility.

Design of Gear Reducer

Fall 2013

- Given the input and output speed, HP, size, and use, my team designed the shafts, bearings, gears and housing.
- We selected materials, dimensions, tolerances, and factor of safety.

Math & Writing Tutor

January 2012 – May 2013

- Tutored Pre-Calculus, Calculus I, II & III, Differential Equations, writing, and analysis.
- Mentored students in reading, writing, analysis, effective study habits, and critical thinking.

Skills, Activities & Awards

- Engineering: SolidWorks, ANSYS, C Programming, Xfoil, COMSOL, MATLAB
- General: Excel, PowerPoint, Word, Access
- Carrier-Pisarczyk Scholarship Recipient 2012 to 2013
- Boston University Varsity Men's Crew, Riverside Boat Club Lightweight High Performance Group
- Property and Casualty Insurance License Individual Producer, MA & NJ Division of Insurance