Evan Stypinski

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Portfolio: https://stypinskie.wixsite.com/engineeringportfolio

Education

Candidate for BS in Mechanical Engineering w/ Minor in Mathematics **2018 – 2023**

Northeastern University – 3.52 GPA

- Dean's list – Fall, Spring Semesters of 2018-2021 academic years
- Relevant Courses: Thermodynamics, ME Design, ME Computation & Design, Statics, Dynamics, Electrical Engineering, Mechanics of Materials, Fluid Mechanics, Heat Transfer

Experience

Mechanical Engineering Co-op | Vicarious Surgical Inc. **01/2022-06/2022**

- Performed various thermofluidic calculations and simulations in efforts to prototype novel electronics enclosure cooling system.
- Executed materials comparison tests to investigate friction, wear, and tolerance requirements for small, articulated joint bushing manufacturing.
- Created test fixtures to evaluate the performance of a microfluidic cooling system meant to protect patients from exposure to a high temperature, intra-abdominal camera.

R&D Engineer, Endoscopy Division | Boston Scientific Corporation **01/2021 – 06/2021**

- Facilitated the development and release of a new, more effective and efficient endoscopic device meant to treat a variety of gastrointestinal infections or diseases.
- Developed, revised, executed, and validated 10+ test methods compliant w/ internal & FDA standards.
- Designed and iterated upon 10+ test fixtures to ensure both proper and safe device evaluation.
- Other projects include the design of an endoscope mount for physician use, device tolerance analysis, test data analysis and materials biocompatibility documentation.

Mechanical Design Team, Liquid Chromatography | Waters Corporation **01/2020 – 06/2020**

- Improved upon previous liquid chromatography technology alongside ME design team to aid in the development of future products.
- Designed, tested, and implemented a thermistor-based leak sensor to reduce manufacturing cost, improve leak detection reliability and protect the machine and its user.

Projects

Northeastern Electric Racing (NER) Mechanical Design Team **09/2018 – Present**

- Developing an electrically powered single-seat racecar to participate in the Formula Hybrid competition alongside teams of mechanical and electrical engineering students.
- Experiences have included the design, testing and manufacturing of various mechanical components such as the steering system, braking system and pedal box to build a cost-effective and safe vehicle to meet Formula Hybrid standards.

Skills

- **Software:** Proficient in SolidWorks (CSWA), COMSOL, ANSYS Fluent, MATLAB, Minitab, MS Office.
- **Hardware:** Experience in basic machining principles and manufacturing techniques, simple circuit design.

Activities & Interests

- SSI Scuba diving certified, watersports, hiking, Avid Formula One fan, Movie Buff