Natalie Stromberg

903-456-7857 | Natalie@Stromberg.me | Linkedin.com/in/nstrombo | nstrombo.com

Education

University Of Texas at Dallas — Richardson, TX
Bachelor of Science in Mechanical Engineering — *Expected May 2027*

Experience

Mechanical Engineering Intern — Sept – Dec 2025
Formlabs — *Somerville, MA*

- Owned test planning, mechanical design, electrical and software integration for automated tests to characterize and validate performance of critical components for next generation 3D printers
- Designed parts for sheet metal, injection molding, 3D printing, and CNC for prototypes and test fixtures
- Supported R&D teams in root-causing and problem-solving printer architecture issues
- Engaged in cost down exercises to revalidate components with lower BOM cost without sacrificing functionality
- Expanded my 3D printing toolkit, completed personal projects including an intern hackathon combat robot, presented my accomplishments to the rest of the company

Director of Combat Robotics — April 2023 – July 2025
Comet Robotics at UT Dallas — *Richardson, TX*

- Created and presented a series of workshops for students, teaching ≈220 students over 3 semesters Solidworks design to produce their first combat robot
- Utilized Solidworks CAD to create 12 combat robots, attending 16 competitions and winning 36+ matches
- Utilized 3D printing to rapidly prototype combat solutions, iteratively designing the drive and survivability of each robot
- Conducted outreach and increased the organization's financial resources by 9x year over year
- Pushed on campus events and workshops that took active members from 12 to over 100, while improving member retention
- Explored high impact materials such as TPU, UHMW, and abrasion resistant steel alloys
- Explored modular design in robotics, created interchangeable sub-assemblies for combat robots

Community Manager — Sep 2020 – July 2023
Convex Apps — *Remote*

- Owned the creation of events, and managed social media presence for a game toolkit startup
- Conducted regular events, growing platform followers by 80% and increasing member retention
- Flow coordination for support tickets, and implemented a more efficient ticket tracking system, reducing ticket solve times

Projects

Modular Combat Robot Outreach Project | *Solidworks, 3D Printing* — Sept 2023 – July 2025

- Collaborated with a team of 3 to develop a novel, modular combat robot system for high school outreach
- Designed modular assemblies, creating unique robot building blocks including 7 weapon attachments and 7 armor attachments that are quickly attached using a grid-dovetail system that allowed parts to be reused
- Leveraged 3D printing for rapid development and sustainability on a total budget of $3,000, printing ≈900 parts
- Hosted 9 workshops with an audience of 40-60 highschoolers each, with all students completing a robot and fighting
- Increased engagement from students, increased interest in workshops from schools over previous workshops
- Presented the robots to Tech Titans of Dallas TX and achieved finalist in *Tech Titans of the Future* award

Molding Machine Project | *Solidworks, 3D Printing, Arduino, EasyEDA, C#* — Nov 2021 – May 2022

- Worked to develop a innovative, reconfigurable machine for creating molds on a budget, aimed at reducing waste and labor
- Used Solidworks to 3D model and produce drawings for manufacturing sheet metal and 3D printed components
- Designed a custom PCB in EasyEDA to control 16 stepper motors and give simple LED feedback to an operator
- Wrote an Arduino control system with a USB PC connection, allowing a user to import files and control the machine
- Produced engineering documentation and testing, reduced molding time, labor, and increased mold accuracy

Skills

Programs: Solidworks, Onshape, Autocad, Adobe CC, MS Office
Languages: Python, C++, Arduino, Matlab
Skills: Mechanical Engineering, 3D Printing, Robotics, PCB Design, Project Management, Modular Design, Iterative Design, Computer skills, Remote Control Systems, Technician Ham Radio License