Steven Kuo

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Github: https://github.com/stevenkuo711/portfolio

EDUCATION

University of Maryland — College Park, MD
B.S. Mechanical Engineering — Expected May 2026
University Honors — Expected Citation May 2024

Dulaney High School — Timonium, MD
High School Diploma, GPA 4.00/4.00 (unweighted), 5.81/6.00 (weighted) — June 2022

SKILLS

CAD: SolidWorks, Autodesk Inventor, Siemens NX & NASTRAN, GrabCAD
Engineering: FDM 3D Printing, Waterjet, Machining, FEA
Programming: Java, C++, MATLAB

EXPERIENCE

UMD Loop — **College Park, MD**
Not-A-Boring Competition - Tunnel Support Member — **September 2022 - Present**

- Modeled parts with complex geometries in Solidworks
- Created engineering drawings to communicate with manufacturers and get quotes
- Ran FEA on components in NX to determine structural integrity and optimize designs

Leatherbacks Combat Robotics — **College Park, MD**
1 lb Antweights, 30 lb Member — **September 2022 - Present**

- Designed parts in Solidworks for robots in both the 1 lb and 30 lb weight classes
- Manufactured parts for the 30 lb robot by operating the waterjet with CAM software
- Employed the drill mill to perform precision facing operations and place accurate holes

Dulaney FIRST Robotics Competition — **Timonium, MD**
Team President — **September 2018 - May 2022**

- Taught new members how to fabricate parts with metalworking tools and 3D printers
- Collaborated remotely through GrabCAD in a design team of 4 members to complete the initial design of the robot with Autodesk Inventor within 2 weeks
- Managed a team of 20 members to fabricate, and test the robot within 6 weeks
- Supervised the programming subteam to help with debugging as well as incorporating encoders and PID control loops for precise movement control
- Raised $5,000 via sponsorship outreach and presentations to operate the team

Dulaney VEX Robotics Competition — **Timonium, MD**
Club Secretary, Team Co-Captain — **September 2018 - May 2022**

- Used spreadsheets to keep track of part orders and spending
- Mentored teams within our organization to help troubleshoot and test designs
- Collaborated in a team of 5 to design, build, and test a 18” x 18” x 18” robot
- Utilized sensors like potentiometers and encoders to program autonomous routines and teleoperated controls that assisted the driver