

Tommy Pogue

tpogue22@iastate.edu • +1 (773) 454-8060 • [linkedin.com/in/tommy-pogue](https://www.linkedin.com/in/tommy-pogue)

EDUCATION

IOWA STATE UNIVERSITY

Ames, IA

Freshman in Mechanical Engineering

Expected Graduation May 2029

- PRISUM Solar Car: Structures, Dynamics, and Design Teams

OAK PARK AND RIVER FOREST HIGH SCHOOL

Oak Park, IL

Obtained High School Diploma

Graduated 2025

PROJECTS AND AWARDS

IATP STATE ENGINEERING DESIGN TEAM

Illinois State University

Design and Manufacturing Lead

April 2025

- Designed an affordable, open-source, wheelchair mounted assistive grabber for people with upper-limb motor impairments to enhance mobility and independence in Autodesk Fusion 360 in collaboration with the Illinois Assistive Technology Program (IATP)
- Led CAD and 3D printed iterations, integrated Arduino-based servo control, and presented the final prototype with technical drawings to IATP board members
- Won regional championship and advanced to state finals; placed 3rd in Illinois

VEX ROBOTICS TEAM

Oak Park and River Forest High School

Member / Mentor

2021–2025

- Designed and constructed VEX robots using Onshape to simulate mechanisms, verify part assembly order, and resolve potential build issues before fabrication
- Collaborated with teammates on strategy, design, and competition preparation, building strong communication and problem-solving skills
- Placed 11th in Illinois state VEX Robotics competition

TOOL STORAGE SYSTEM

Personal Project

Creator

June 2025

- Designed modular standardized tool and material storage system using Fusion 360 and manufactured multiple iterations using an FDM 3D printer
- Reverse-engineered 3D models of parts and tools to design and print custom inserts

WORK EXPERIENCE

COUNTRY CLUB ESTATES

Fontana-on-Geneva Lake, WI

Customer Service Manager

Summers 2021–2024

- Built communication skills by assisting guests and resolving issues on the spot
- Practiced teamwork and leadership while assisting guests and coworkers

BABYSITTING

Multiple Families

Babysitter

2021–2025

- Provided responsible childcare for ages 2–12

SKILLS AND SOFTWARE

SolidWorks • 3D Printing • Autodesk Fusion 360 (CAM & 3D modeling) • Autodesk Inventor
• Onshape • C++