Jakob Werle

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Education

Temple University **Expected Graduation – Spring 2024**
Bachelor of Science in Mechanical Engineering *Philadelphia, Pennsylvania*

Experience

Temple Formula Racing FSAE **June 2021 – June 2022**
President *Philadelphia, Pennsylvania*

- Lead design and fabrication of Formula SAE racing car for use in FSAE design competition
- Organized engineering and marketing projects using Gantt chart to streamline team workflow
- Delegated tasks to 40+ team member between 7 subsystems to meet critical deadlines
- Managed $75,000 team budget
- Pursued sponsorships with vendors
- Recruited new TFR members and promoted teamwork

Temple College of Engineering **August 2020 – June 2022**
Machine Shop Worker *Philadelphia, Pennsylvania*

- Programmed high efficiency machining tool paths using Fusion 360
- Setup, operated, and maintaind CNC mill, lathe, and router
- Advised students, research groups, and lab in designing on manufacturing of custom parts
- Curate shop guides that reflect contemporary machining practices

Mishimoto **May 2021 – August 2021**
Design Engineer Intern *New Castle, Delaware*

- Designed radiator, cooling pipes, and other parts to increase vehicle performance
- Created 3D models of vehicle parts using SOLIDWORKS
- Drafted high detail engineering drawings of automotive parts using SOLIDWORKS
- Communicate designs requirements with QC team to maintain high quality and precision
- Followed strict CAD naming conventions and organized library in SOLIDWORKS PDM software

Temple Formula Racing **June 2020 – June 2021**
Lead Suspension Engineer *Philadelphia, Pennsylvania*

- Headed the of design of new suspension platform for 10" wheels on FSAE race car
- Analyzed tire data and vehicle dynamics to maximize handling characteristics of FSAE car
- Optimized strength and weight of vehicle components using SOLIDWORKS FEA
- Constructed a SOLIDWORKS master-assembly of the 2021 TU race car containing 1600+ parts

Projects

add project names | *software, skills, etc* **Date**

- add resume items

Technical Skills

Software: SOLIDWORKS, Fusion 360, AutoCAD, Python, MATLAB, Microsoft Office Suite
Hardware: HAAS CNC mill and lathe, TIG welding, fabrication techniques, 3D scanning

Awards

- Certified May 2020
- Certified SOLIDWORKS Associate (CSWA) May 2020
- Managed executive board of 5 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Led chapter of 30+ members to work towards goals that improve and promote community service, academics, and unity.