Jakob Werle

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Education

Temple University — *Philadelphia, Pennsylvania*

Bachelor of Science in Mechanical Engineering — Graduation Expected: May 2023

Relevant Experience

Temple University — *Philadelphia, Pennsylvania*

Team President – Temple Formula Racing Team FSAE — **June 2021 – Present**

- Lead the design and fabrication of Formula SAE racing car for use in FSAE design competition
- Organize projects using Gantt chart to streamline team workflow
- Delegate tasks to 40+ team members and 7 systems to meet critical deadlines
- Manage $65,000 team budget
- Pursue sponsorships with vendors
- Recruit new TFR members and promote teamwork

Temple University — *Philadelphia, Pennsylvania*

Machine Shop Worker — **August 2020 – Present**

- Program high efficiency machining toolpaths using Fusion 360
- Setup, operate, and maintain CNC mill, lathe, and router
- Advise students, research groups, and lab in designing for manufacturing of custom parts
- Curate shop guides that reflect contemporary machining practices

Mishimoto — *New Castle, Delaware*

Design Engineer Intern — **May 2021 – August 2021**

- Designed radiators, cooling pipes, and accessory parts to increase vehicle performance
- Created 3D models and high detail engineering drawings of automotive parts
- Communicate designs requirements with QC team to maintain high quality and tolerance

Temple University — *Philadelphia, Pennsylvania*

Lead Suspension Engineer – Temple Formula Racing Team FSAE — **August 2019 – June 2021**

- Headed the design of new suspension package for 10-inch wheel Formula SAE car
- Optimized strength and weight of vehicle components using Solidworks FEA
- Constructed a SOLIDWORKS master-assembly of the 2021 TU racecar containing 1600+ parts

Awards

- Certified SOLIDWORKS Associate (CSWA) — May 2020 – Present
- Boy Scouts of America – Eagle Scout 2010 – 2018 — 2010 – 2018
- National Honors Society — 2015 – 2018

Technical Skills

Software: SOLIDWORKS, Fusion 360, AutoCAD, Python, MATLAB, Microsoft Office Suite

Hardware: HAAS CNC mill and lathe, TIG welding, fabrication techniques, 3D scanning