

Nicolas Wolford

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OBJECTIVE

Looking for a career position in the automotive or manufacturing field.

Please check out my projects/skills portfolio at <http://nickwolford.com/>

EDUCATION

B.S. Mechanical Engineering, San Diego State University

Graduated May 2022, GPA: 3.14 – On dean's list twice in the last 3 semesters

RELEVANT COURSES

- Senior Design Capstone Project: Implemented a 9-month Engineering Design Cycle to develop a self-deployed and retracted inflatable barrier for an SDSU sponsor.
- Mechatronics (Arduino programming, + Lab data collection and processing)
- Materials Science
- Mechanics of Materials
- Thermodynamics
- Statics + Dynamics
- Thermal systems laboratory
- Battery Science
- Heat Transfer
- MATLAB
- Fluids Engineering + Lab
- Robot Modelling and Control
- Mechanical Component Engineering
- Powder Metallurgy
- Sensor Technology
- Fundamentals of manufacturing

SOFTWARE

- The essentials: Microsoft office suite (including creating Excel based engineering calculators)
- Remote collaboration: Microsoft teams, Zoom, Pathable Virtual Conferencing, Slack, GroupMe
- Modelling/simulation: Solidworks, Onshape, PTC Creo, KiCAD, Arduino IDE, Fritzing, Cura, HSMworks.

COLLABORATIVE EXPERIENCE

- **SDSU Senior Design Team Lead**, Rapid Deployment Runway Closure System Aug 1st, 2021 – June, 2022
- **SDSU Aztec Baja Racing Manufacturing Engineer/System Lead**, San Diego, CA Aug 1st, 2018 – June, 2022

WORK EXPERIENCE

TYPE A MACHINES, San Leandro, CA

- **Practical Applications Developer** June 2016 - August 2016

Worked with clients to produce 3D printed fixture for line production enhancements and one-off metal casting.

- **CAD Test Model and Quality Control** June 2015 - August 2015

Repaired corrupted .stl files submitted by clients and investigated causes of improperly performing machines.

LEADERSHIP ROLES

- **SDSU Senior Design Team Lead** SDSU, Rapid Deployment Runway Closure System 2021 - 2022
- **SDSU Brakes Lead** Aztec Baja Racing team, San Diego, CA 2019 - 2022
 - Scored 1st in the S&T event, and 8th overall as a 7-man team at Baja SAE Rochester, NY 2022
- MakerBot/CAD presenter for California Industrial and Technology Education Association 2015 and 2016
- **Eagle Scout** Boy Scouts of America, Troop 234, Moraga, CA 2013 - 2014

PROFESSIONAL AFFILIATIONS

- **Member**, Society for Automotive Engineers International (SAE International)

AWARDS

- **Campolindo High school Industrial Arts Award** for Automotive, CAD, and Wood Working
- **Presidential Gold Service Award**, Corporation for National and Community Service