

Umut Amac ALPTEKIN

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Education

University of Texas at Austin, Online

Sep 2020 – Dec 2020

Coding Boot Camp Certificate - Full Stack Web Development

- Covered Topics: HTML5, CSS, JS, jQuery, API, JSON, AJAX, Node JS, MongoDB, MySQL, React JS, Responsive Design, Local Storage, User Authentication, PWAs, Git, Heroku, and more. Portfolio: <https://umutamac.tk/>

The Pennsylvania State University, University Park, PA, USA

Aug 2016 – May 2020

B.S. in Mechanical Engineering – GPA: 3.40

Pforzheim University, Pforzheim, Germany

May 2018 – June 2018

Summer Study Abroad Program – Industrial Engineering

- Classes: Production & Supply Chain Management, and Engineering in Manufacturing
- Tours to plants of Mercedes-Benz (Rastatt), Volkswagen (Berlin), and Audi (Neckarsulm)

Work & Project Experience

Shell Eco-marathon Competition

Jan 2020 – May 2020

Capstone Project, Penn State University

- Built an exceptionally fuel-efficient car for the competition as a team under a \$3000 budget.
- Created, shaped and refined the outer panels out of fiberglass to help make the vehicle lightweight, sturdy, aerodynamic, and compliant with competition's safety rules.
- Managed the shipping the vehicle to and from the raceway and arranged hazardous material shipment.

Manufacturing Engineer Intern

May 2019 – Aug 2019

CN Wire Corporation, Santa Teresa, NM

- Analyzed root causes of non-conforming or returned products and took preventative actions.
- Optimized the work area of the operators to reduce their movement time and increase efficiency.
- Financial analysis on the consumables used in production to save \$3000/year.
- Improved the comprehensibility of the SAP system for American, Turkish and Mexican workers in the facility.

Technical Project

Sep 2018 – Dec 2018

ME 340 (Mech. Eng. Design Methodology), Penn State University

- Collaborated with teammates to design and build a puzzle box to be given to an elementary school.
- Translated customer needs into design objectives, generated design concepts, and refined the best design concept using decision matrices. Prepared a proposal and a final report for our design, built multiple prototypes.

Student Technology Services Consultant

Aug 2019 – May 2020

Part-Time Job, Penn State University

- Troubleshoot users' laptops and phones, provide hardware and software repairs.
- Maintain computers and printers in labs across campus, help users with technical difficulties in labs.
- Aided faculty by moderating Zoom sessions during online learning period.

Certifications & Skills

- Certified SolidWorks Associate
- Six Sigma Green Belt from IISE
- GD&T Intermediate Principles from IIGDT
- Software: SolidWorks, SAP ERP, MATLAB, Fusion 360, MS Office
- Turkish (native), English, French