



ONUR TALU

Mechanical Engineer

I am a senior mechanical engineering student, looking for full-time opportunities. I am interested in analysis driven mechanical design, vehicle dynamics, and DFMA. I am passionate about the development of renewable energy generation, sustainable energy storage methods, and electric vehicles.

CONTACT INFO

Phone

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Portfolio

onurtalu.com

EDUCATION

B.S. Mechanical Engineering

Olin College of Engineering
Needham, MA
3.92 GPA
2016-2020

SKILLS

Software

Solidworks

ANSYS

COMSOL

MATLAB

Mathematica

Fabrication

Rapid Prototyping

CNC Mill

Lathe

MIG/TIG Welding

Sheet Metal

EXPERIENCE

Mechanical Engineering Intern

Form Energy | Somerville, MA | May, 2019 - Aug, 2019

- Led design and build of a sealed chemical reactor enclosure with design for assembly (DFA) features, including adjustable bus bars and service ports. Helped reduce assembly time from 5 person-hours to 1 person-hour.
- Improved manufacturing and assembly processes that helped ensure repeatability between different builds of the same design release, as well as decrease manufacturing and assembly time.
- Designed and implemented in-incubator filtration and alarm system that mitigated hazardous mists for battery testing incubators.

Senior Suspension Geometry & Chassis Engineer

Olin Electric Motorsports | Needham, MA | Sep 2016 - Present

- Fourth year as mechanical engineer and third year as suspension and chassis engineer in FSAE Electric team.
- Led complete redesign of suspension geometry, writing MATLAB scripts for 2D design and analysis, Adams Car and Optimum K for 3D analysis and validation.
- Analyzed torsional rigidity of partial and full chassis, under various loading conditions using ANSYS to improve torsional stiffness and stiffness gradient.
- Designed and fabricated suspension tab welding jig that locates outboard assembly with respect to chassis and allows camber, toe, caster adjustment.

Mechanical Engineering Intern

Shell TechWorks | Cambridge, MA | May 2018 - Aug 2018

- Designed pressure gauge enclosure that withstands up to 600 psi, and can be mass produced by injection molding, for hydrostatic testing.
- Built ABS prototypes to simulate various functions of enclosure, including seal of the enclosure and clearance for operations.
- Developed a cost analysis model that simulates impact of choice of fuel types, regulation standards, price levels on payback time.