

NAVEED RIAZIAT

CONTACT

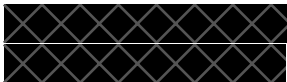
Phone



Email



Address



EDUCATION

Purdue University | May 2020

BSME, ECE Minor

GPA: 3.72/4.0

Dean's List: 2016-2019

COURSEWORK

PDEs and Linear Algebra

Thermodynamics

Dynamics/Statics

Fluid Dynamics

Linear Circuit Analysis

Mechanics of Materials

AWARDS

Purdue Presidential Scholar

Purdue EXPO Scholarship

HackIllinois Winner

Purdue Bottomley Scholarship

SKILLS

Solidworks

Metalworking

CATIA

Data Analysis

Python

CMCs

MATLAB

Machining

C/C++

DFX/DFA/DFM

Adobe Elem.

CAM

Office Suite

GD&T

FMEA

ABAQUS

SOFT SKILLS

Presentations and Public Speech

Project/Team Management

Photography/Design

Technical Documentation

WORK EXPERIENCE

APD Mechatronics Intern

May – Aug. 2019

Intuitive Surgical

Sunnyvale, CA

- Prototyped Next-Generation System Components
- Analyzed Workflow and Operating Room (OR) integration
- Introduced Electromechanical Systems for Improved Testing
- Designed Fixtures for System Characterization
- Coordinated with CDE's, Surgeons, Engineers to Inform Design Requirements.

CMC Manufacturing Eng. Intern

May – Aug. 2018

Rolls-Royce High Temperature Composites

Cypress, CA

- Introduced novel machining fixtures for 5-Axis Machines
- Instated Tool Tracking to predict tool wear for purchasing
- Launched SOP/TI development for new capabilities

Motion Algorithms Intern

May – Aug. 2017

TDK Invensense

San Jose, CA

- Pioneered OpenCV drone implementation
- Developed Motion Algorithms w.r.t. 9-axis MEMS
- Streamlined signal processing with Python, C++, MATLAB

Nanowire LED Intern

May – Aug. 2015

GLO

Sunnyvale, CA

- Headed testing of LED bar display backlights
- Design of assembly fixtures for FPC ACF bonding

EXTRACURRICULARS

Control Systems lead

Feb. 2018 - Present

Purdue Hyperloop

- Upgrading pneumatically actuated stability systems
- Designing Novel Propulsion Wheels using FEA and CATIA
- Machining/manufacturing Aero, Propulsion, Braking Systems

Senior Mentor

Aug. 2016 – Present

Purdue Honors College Racing Team

- Spearheaded CAD/CAM workshops for incoming students
- Developing and overseeing all engineering projects, rollcage dampeners, chassis dynamics
- Pioneered novel sensor suite for kart tuning

Design Engineer

Feb. 2018 - Aug. 2018

Purdue Robomasters

- Designing innovative robotic manipulators using Solidworks
- Utilizing DFA/DFM to create cost/time effective designs

Control Algorithms Engineer

Sept. 2017 – May 2018

Purdue Mars UAV Team

- Integrated science and controls sensor systems
- Developed control systems for flight navigation/control
- Engaged in PDR/CDR preparation for industry review