NAVEED RIAZIAT

CONTACT

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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