Nabeel Ahmed Khan
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Education:

- Bachelor of Science in Mechanical Engineering, with Aerospace Engineering minor, University of Texas at Arlington. Graduation date May 2017. Cumulative GPA 3.346
- Master of Science in Mechanical Engineering, University of Texas at Arlington. Graduation date May 2020. Cumulative GPA 3.125

Awards:

- 2012 President's Charter Scholarship from UT Arlington, amounting to $8000 in financial aid, and out of state tuition rebate. Renewed thrice
- AE Petsche Scholarship for automotive engineering amounting to $500, for Fall 2013 and Spring 2014 semesters.
- Out of state tuition rebate, awarded for four semesters from Spring 2019 to Spring 2020

Experience:

- Team associate at UTA Racing. Tasked with CAD, chassis fabrication and machining projects. August 2012-April 2013.
- Team member at UTA Racing. Ergonomics lead for the 2014 UTA Racing car. Responsible for design and manufacturing of the driver interface and positioning. Responsible for shifter linkage design to determine force and displacement for shifter and clutch actuation. Performed stress analysis and weight reduction of pedal box and seat assembly, shifter components, and mounting tabs. Manufactured components in the machine shop. Partially responsible for inventory and procurement. Worked with the team to manufacture other systems such as chassis and aerodynamics. April 2013-May2014
- GTA and GRA at the MAE Design and Innovation lab in Woolf Hall. Responsible for shop safety. Assisted students with projects. Specialized in the use of Markforged Mark Two composite printer. Taught labs for Introduction to Manufacturing class. January 2019 – May 2020

Computer Skills:

- SolidWorks
- PTC Creo
- Altair Inspire
- Altair Hypermesh and Optistruct
- Programming with C, MATLAB and Python
- ANSYS for structural static, modal and thermal analysis
- Familiarity with Ubuntu Linux (13 years)

Fabrication Skills:

- Metal fabrication experience gained from working on tube chassis racecars
- Practical experience machining with manual lathe and vertical mill
- TIG welding steel
- Use of 3D printers, including basic FFF printing with ABS, and with continuous filament fabrication of composite parts (carbon-nylon)

Research:

- Manufacturing and analysis of 3D printed carbon fiber stiffened grids
- Effects of blast trauma on brain tissue
- Vehicle dynamics analysis of FSAE car with active aerodynamics (senior design project)