Adil Ansari

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SUMMARY

A **highly motivated engineering** graduate with a robust interest in STEM who has worked under independent and team working scenarios encompassing **diverse fields**. Values **problem solving** with given constraints and gives importance to **presentation and leadership** skills.

EDUCATION

Arizona State University, Tempe, AZ
M.Sc., Mechanical Engineering, May 2019 **GPA: 3.73**
Thesis: A Collation and Analysis of Two-Dimensional Unsplit Conservative Advection Methods for Volume of Fluid at Interfaces
B.Sc., Mechanical Engineering (Computational Mechanics), May 2016 **GPA: 3.40**

PROJECTS

2018: Economical Solar/Net Metering Analysis Project
Team Position: Leader. Coded a software to compute the ROI of a small business terrace solar installation.

2018: High Performance Computing Project
Solved a numerical method using Distributed Computing on C and Fortran

2018: Spectral Computational Fluid Dynamics (CFD) Project
Coded a highly accurate method for solving Laminar flows and Heat Exchange.

2017: Robot Trajectory Planning Project
Coded a trajectory for KUKA robotic arms with obstacle avoidance.

2017: Multiphase CFD Project
Generated Codes to run and validate state-of-the-art multiphase methods.

2017: Finite Element Project
Coded a mesh and solution to static deformation from scratch.

2015-2016: Senior Capstone Project
Automated Fire Extinguishing mechanisms for automobiles in emergency scenarios. **Lead team through planning, designing, fabrication, assembly, and testing**. Minimized false positives with CO_2 and IR flame sensing and explored CFD simulation

2013-2016: Engineering Projects in Community Service (EPICS)
Team Position: Deputy Leader. Partnered with STARS (Scottsdale Training & Rehabilitation Services) to engineer an efficient and reliable navigation system for **assisting visually impaired individuals**.

SKILLS

Languages: MATLAB, C, Python, FORTRAN, JAVA, HTML, Javascript.

General: Parallel Computing, Experimental Statistics, CAD, Interactive Application Design, FMEA, Real-time-Data Visualizations, UNIX shell scripting, OOP.

Applications: SOLIDWORKS, PTC CREO, MATLAB, ANSYS Geometry, Structural and Fluent, Microsoft Office (Macro-Enabled), Blender 3D, Adobe Photoshop, Adobe AfterEffects.

Numerical: Spectral Analysis, Trajectory Planning for Robotic Arms, LIDAR Wind Data Processing, Static Deformation, and Computational Fluid Dynamics.

Hardware: Power Tools, Arduino Devices (Intel Galileo), Raspberry Pi, Oscilloscope,

Microcontroller, Linear Actuators, Short Range Binary Wireless Communication

EXPERIENCE

Teaching Assistant SEMTE || ASU
January 2018 - May 2019 Tempe, Arizona
Operated wind tunnel labs with sensitive equipment for Aerodynamics Lab. Did **programming tutorials**.

Summer Technology Assistant Saudi Aramco Schools
2013 - 2016 Tempe, Arizona
Statistically analyzed middle school fitness data using algorithms under Macro-Enabled MS Office spreadsheets and documents to generate individual reports after data entry.