

Syed Adil Hasan Naqvi

Mechanical Engineer

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Summary

An engineering enthusiast, amateur book reader with a knack for graphics designing, aiming to expand current skill set in order to solve real world problems via rigorous research in the field of mechanical engineering.

Education

2015-19	Bachelor's degree in Mechanical Engineering from National University of Sciences and Technology H12 (2.81/4.00)
2018-19	Minor in Computer Sciences from National University of Sciences and Technology H12 (3.50/4.00)
2013-15	Intermediate from Government College University LHR (81%)

Test Scores

- | | |
|-------------------------|------------------|
| • IELTS Academic Module | 7.5 Overall Band |
| • GRE General | 319, 4.0 |

Certifications/Specializations

- Microsoft Office Specialist Certification – earned at MOS NUST
- Python for Everybody Specialization – by University of Michigan through Coursera
- Mathematics for Machine Learning Specialization – by Imperial College London through Coursera
- Machine Learning Specialization – by University of Washington through Coursera
- Deep Learning Specialization – by deeplearning.ai through Coursera
- Applied Data Science with Python Specialization – by University of Michigan through Coursera

Projects

- **Design and Analysis of a Submarine's Pressure Hull**
Designed a submarine's pressure hull from scratch in SolidWorks and ran static analysis using ANSYS
- **Pipe Network Design & Analysis**
Designed and fabricated a pipe network to achieve required pressure heads at given terminals using Pipe Flow Expert
- **Automatic Braking System**
Implemented automatic braking system on an RC car using Arduino UNO and ultrasonic sensor (HC SR04)
- **Face Detection Program**
Successfully implemented Viola-Jones face detection algorithm in MATLAB
- **Website Development**
Made a website for B&W Engineering Solutions

- **Functional Dictionary in C++**
Used treaps to make a fully functional digital dictionary in C++ with word search, word addition, and word deletion capabilities
- **Color Classifier**
Crowd-sourced, preprocessed data and, trained a machine learning model to classify colors based on RGB value using sklearn
- **Glass Identifier**
Identified 7 classes of glass based on composition by modeling an SVM and a neural network using sklearn

Skills

- SolidWorks Designed a Landing Gear Strut for a UAV,
Modeled a Steam Locomotive (3D modeling and animation),
Designed Submarine Hull from scratch,
- ANSYS Dynamic analysis of UAV Landing Gear Strut,
Static analysis of a Submarine Hull,
- Pipe Flow Expert Designed and analyzed a pipe network to achieve certain pressure heads,
- C++ Made functional Dictionary using Treaps,
- HTML/CSS/JS Developed a website for B&W (engineering services provider),
- MATLAB Made Face Detection program using Viola-Jones algorithm,
Used Genetic Algorithm to solve Travelling Salesman Problem utilizing OOP,
Forward and Reverse Kinematics of SCARA Robot with GUI,
- Python Implemented machine learning models to classify colors and identify glass

Experience

Aug. 2017	Operations Intern	Mari Petroleum Company Limited (MPCL), Islamabad
2017-18	Director	NUST Community Service Club
2016-18	Director	NUST Society of Mechanical Engineers
2016	Executive	NUST Olympiad 2016

Social Work

Jan. 2019	Conducted "Water Conservation Awareness Drive" at Army Public School Islamabad
Oct. 2018	Collected, cleaned, and distributed 100+ items of clothes to Wall of Kindness in Islamabad
Nov. 2017	Conducted "Blood Donation Drive 2017" at NUST with NUST Community Service Club

Hobbies

- Recreational Coding Developed an in-browser 2D shooting game using JS
- Chess 1604 ELO rating (2000+ rated games)
- Graphics Designing Designed 100+ posters, banners, social media posts for several university societies
- Casual reading