

# Syed Adil Hasan Naqvi

Mechanical Engineer

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## Summary

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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

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2015-19	Bachelor's degree in Mechanical Engineering from National University of Sciences and Technology (NUST), Islamabad
2018-19	Minor in Computer Sciences from NUST, Islamabad
2013-15	Intermediate from Government College University, Lahore

## Test Scores

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

## Certifications/Specializations

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

## Projects

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- **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 based in Karachi
- **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

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### Competent in

- Artificial intelligence
  - Deep learning
  - Genetic algorithms
  - SVMs
  - TensorFlow
  - Pandas
  - Numpy
- 3D modeling
  - SolidWorks 2016
  - ProE Wildfire
- Web development
  - HTML
  - CSS (vanilla & SASS)
  - JS (vanilla & React)
  - jQuery
  - MySQL & SQLite
  - APIs

### Familiar with

- Pipe Flow Expert (Pipe network analysis)
- LabView (Data acquisition)
- Proteus (Circuit design)
- Requests & BS4 (Web scrapping)
- Ansys (Dynamic analysis)

## Experience

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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

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

## Hobbies

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- 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