

# SYED JAWAD AKHTAR

## COMPUTER ENGINEERING STUDENT

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## EDUCATION

Bachelors in Computer Engineering  
**Zakir Husain College of Engineering and Technology**  
2016 – Present    Aligarh, India

Senior Secondary Education  
**International Indian School**  
2016    Jeddah, Kingdom of Saudi Arabia  
Central Board of Secondary Education

Secondary Education  
**International Indian School**  
2014    Jeddah, Kingdom of Saudi Arabia  
Central Board of Secondary Education

## EXPERIENCE

Co Coordinator  
**Autonomous Underwater Club - ZHCET**  
August 2018 – Present    Aligarh, Uttar Pradesh

- Vehicle simulation in Gazebo Robotics Simulator
- Detailed studying and implementation of acoustic localization on the AUV
- Social media manager

Summer Student Intern  
**Saudi White Cement**  
June – July 2018    Kingdom of Saudi Arabia

- Training of security systems in an industrial company
- Hands on Experience on ERP (Enterprise Resource Planning) - Oracle  
Describing Cash Flow, Inventory & other major modules used in a manufacturing company

## PROJECTS

Camera Tuning AI using Deep Reinforcement Learning  
**Zakir Husain College of Engineering & Technology**  
August - December 2018    India

- Deep reinforcement learning implemented to tune white-balance settings of android camera - **Minor Project of Junior year**
- Trained using Keras library, image sent over to system using socket programming, and image extraction using CNN data set MobileNetV2

Acoustic Localization on AUV's  
**Autonomous Underwater Vehicle Club**  
January 2019    India

Localization of a beacon underwater using an array of hydrophones attached on the vehicle. These hydrophones will be passed through a signal processing board and then the Time Difference Of Arrival (TDOA) is determined of the incoming signal. Accordingly the source is located and the Autonomous Vehicle is directed towards it


Underwater Simulations of AUV's  
**Autonomous Underwater Vehicle Club**  
March - On going    India

AUV's can be simulated in realistic conditions by simulating it. For simulations we are using **Gazebo Simulator** along with **Robot Operating System** middleware software. ROS helps in combining different independent nodes, which are different components of the robots, on one platform and controlling it.

## LEARNING

- Programming for Robotics - ROS** – By Institute of Robotics and Intelligent Systems, Robotics Systems Lab, ETH Zurich (Dec. 2018)
- Deep Learning A-Z™** – Hands on Artificial Neural Networks Proficiency course on Python on Udemy
- Data Analysis and Machine Learning using Python** – By Dept. of Mechanical Engineering, Zakir Husain College of Engineering and Technology (Jan. 2019)

## ACHIEVEMENTS

-  **Students Autonomous Underwater Vehicle Competition 2019**  
Overall 4th position of the team nationwide - was in the computer team
-  **Singapore AUV Challenge 2018**  
Lead the team and reached the preliminary round
-  **Co - Founder of AUV ZHCET Club**  
One of the founding members of the technical club in the college



#### Top 4 Idea Presentation

on AUV Surveillance at Riyadh Inspiring Entrepreneurs Summit 2018



#### 1st Prize in Mobile app Mock up competition by IEEE

Made an app for foodies and food makers ranging from professional chefs to moms to share recipes - The Food Up app



#### School Topper in Computer Science subject

In Senior secondary school, bagged the first position at school level by scoring 96 % in Computer Science



#### HackDTU Hackathon

Showcased and implemented an online Car Parking system

## PATENTS

#### A low cost Autonomous Underwater Vehicle having five degrees of freedom and two thrusters

📅 March 2018

📍 United States

- U.S. Patent Filing No. **15949553**

#### 6 Pin Underwater Electrical Connector

📅 July 2018

📍 India

- Indian Patent Application No. **201811027144**
- **Published**

## SKILLS

Robot Operating System

Gazebo Robotic Simulator

Google Sketch Up

Simulink

Labview

Android Studio

LaTeX

Photoshop CS6

Premiere CS6

Audition CS6

## CO-CURRICULAR



Organizer at blood donation campaign



Official Photographer of hall festival



First prize in photography competition in hall festival



Social Media manager at Recrufest 2018 - A Mega Job fair

## WORKSHOPS/CONFERENCES

- NoSQL, Bigdata & Artificial Intelligence Conference by Datumcom
- UAV's and Drones
- Android Web Development and Web Designing

## LANGUAGES

C

C++

Java

Python

Java

MATLAB

SQL

## REFERENCES

**Dr. Saleem Anwar Khan**

**Associate Professor**

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Zakir Hussain College of Engg. & Tech.  
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