

SYED JAWAD AKHTAR



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As a robotics engineer & a graduate of the University of Oulu with a strong foundation in robotics, software engineering, and data science, I aim to work on projects that offer challenging software development and automation opportunities.

EDUCATION

Master in Computer Science and Engineering

University of Oulu

2021 - 2023 Oulu, Finland

Masters thesis: **A motion control method for a differential drive robot based on human walking for immersive telepresence**

Courses taken: VR systems and humans, Software development, maintenance & operations, Big Data, IoT, User Interaction (UI) and User Experience (UX).

EXPERIENCE

Robotics Engineer

Rollyy

May 2024 - Present Finland

- Developed autonomous delivery robots.
- Python, ROS2, Nav2, 3D Modeling, Livox 360° LiDAR, Gazebo, Jira, AWS.

Research Assistant

Perception Engineering Group, UBICOMP, University of Oulu

June 2022 - August 2023 Oulu, Finland

Improved Human-Computer Interaction of DDR telepresence robots with 360° cameras & VR headsets.

Intern - IT Advisory

RSM Saudi Arabia

August 2021 Riyadh, Saudi Arabia

- Conducted cybersecurity audits for Saudi ARAMCO, enhancing controls.
- Conducted VAPT and LLMNR poisoning assessments on internal LAN.

Chairperson

Autonomous Underwater Vehicle (AUV) - (Marine Technological Society) - ZHCET

August 2019 - July 2020 Aligarh, Uttar Pradesh

- Mentored MATE ROV competition, driving participant growth.
- Conducted vehicle simulations in Gazebo for enhanced AUV performance and led AUV acoustic localization research and development.

TECH SKILLS

C C++ C# Python SQL
Unity SQLAlchemy Flask Pytest
Selenium Swagger RESTful API
Postman Docker AWS
ROS 1 & 2 Gazebo Git UML
Blender

PROJECTS

Factory training using VR

University of Oulu

March 2023 Finland

Created a VR-based box packaging factory for employee onboarding and hands-on training, promoting interactive learning

Tools & Algorithms: C#, Unity, & Oculus Quest 2.

Book Reservation System

University of Oulu

2023 Finland

Developed a dockerized API for reserving books for libraries to be used.

Tools & Algorithms: C#, Minimal API, ASP.NET, Swagger

Movie Review Project

University of Oulu

March 2022 Finland

Tested RESTful API designed to provide targeted movie recommendations.

Tools & Algorithms: SQLAlchemy, Flask RESTful, Pytest, Swagger

Targeted Advertising using IoT


University of Oulu

December 2021 Finland


Implemented a Docker-based client-server architecture to determine the age & gender of individuals for personalized advertisement delivery.

Tools & Algorithms: Python, MQTT, Mosquitto broker, Gender-Age detector


ACHIEVEMENTS

 **Tampere City UltraHack 2024**
Won 4th place pitching autonomous robots and drones for power grid surveillance [\[Link\]](#)

 **Startup Weekend Oulu 2023**
Won 3rd place pitching an idea-Sinimarja [\[Link\]](#)

 **Nokia Hackathon 2022**
Show-cased a solution and demo for solving problems related to farming & middle-men [\[Link\]](#)

 **Co-Founder of AUV ZHCET Club**
Raised ~400k INR in the first year

 **Top 4 Idea Presentations**
"AUV Surveillance" at Inspiring Entrepreneurs Summit 2018, Saudi Arabia

PATENTS

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

Patent No. 418647

 January 2023  India


6 Pin Underwater Electrical Connector


Indian Patent Application No. 201811027144

 July 2018  India

CO-CURRICULAR

 **Polar Bear Pitching 2024 volunteer**

 **Investors team volunteer - SLUSH 2022**

 **Student tutor and university Ambassador - University of Oulu**