

Hassan Yousuf

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SUMMARY

A dedicated and certified Internet Professional having a strong technical background. Adept at utilizing network monitoring tools isolating network security deficiencies and creating comprehensive reports of network issues. Along with experience in all aspects of project life cycle from planning, requirements gathering and analysis, to driving process, release, change, rollout and troubleshooting.

CERTIFICATIONS & SCHOLARSHIPS

Huawei Certified Internet Professional (Routing & Switching)	DEC 2019 – DEC 2022
Huawei Certified Internet Associate (Routing & Switching)	DEC 2019 – DEC 2022
Microsoft Azure Machine Learning Scholarship Foundation Course – Udacity	SEPT 2020
Intel® Edge AI Scholarship Foundation Course – Udacity	MAR 2020

WORK EXPERIENCE

- Research Assistant JAN 2019 – FEB 2020
University of Central Punjab Lahore, Pakistan
- Assisting Director of Center of Robotics in writing and sending research proposals. Supervising undergraduate students with their final year projects.
 - Apply extensive understanding in fields to assure critical test parameters when conducting UAV experiments (hardware configurations, test plan checklist, etc.). Designed and developed different multi-rotors using numerical modelling and calculating their efficiencies using different tools (MissionPlanner, eCalc).
 - Direct and manage the development of novel algorithms and frameworks that can be broadly applied to a variety of advanced robotic applications. Managing and approving design and fabrication of models which need to be 3D printed using different 3D software's.
 - Travelling to international conferences, research visits in other institutions, and assist in execution of research project titled "Deforestation Detection using Autonomous Robots" and "Detection of Fungus in Fields using Autonomous Robots", funded by DAAD.
- Visiting Researcher JUL 2018 – SEPT 2018
Technical University of Kaiserslautern JUN 2019 – AUG 2019
Kaiserslautern, Germany
- Invited by the German Academic Exchange Service (DAAD) to work on their project Detection of Fungus in Fields using Autonomous Robots (DeFFAR), project number 57345707, funded by DAAD under "German-Pakistani Research Collaboration".

- Designed and modeled an octo-copter in Blender for use in Unreal Engine 4 with PID Control and tested its kinematics in different environments. Implemented third party plugins i.e. Microsoft AirSim (LiDAR, autonomous flight) and ROSIntegration (Robot Operating System - Kinetic) on Ubuntu 16.04 LTS.
- Developed an android application in Android Studio where electromyography (EMG) signals are saved and trained on different machine learning algorithms. Implemented on Myo Armband and trained the model in TensorFlow using Deep Learning and achieved an accuracy of 88.8% using Myo Android SDK.
- Presented "Using Hand-Gestures to Control Drone" at the 14th Workshop of Field and Assistive Robots at Dagstuhl, Germany on July 24-25, 2018.
- Presented "Copter Kinematics using PID Control in Unreal Engine" at the 16th Workshop of Field and Assistive Robots at Neustadt, Germany on July 24-25, 2019.

EDUCATION

Bachelor of Science in Computer Science (Honors) University of Central Punjab	2014 – 2018 Lahore, Pakistan
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SKILLS

PLATFORMS	Windows, Linux, Android
FRAMEWORKS & LIBRARIES	TensorFlow, CodeIgniter, Laravel, OpenCV, Numpy, Scipy, Git, Robot Operating System (ROS), Intel OpenVINO Toolkit
TOOLS	Microsoft Office, ERP/CRM Software, Cisco Packet Tracer, Huawei eNSP, Amazon Web Services, Microsoft Azure, Google Cloud
CREATIVE DESIGN	Photoshop, Illustrator, After Effects, InDesign, Sony Vegas, Camtasia Studio

HONORS & AWARDS

WINNER	17th Workshop on Fields and Assistive Robotics, Lahore, Pakistan.
INVITED SPEAKER	16th Workshop on Fields and Assistive Robotics, Neustadt, Germany.
TOP 5	Software Competition, SOFTEC 2019, Lahore, Pakistan.
3RD POSITION	All Pakistan Project Expo 2018, Lahore, Pakistan
INVITED SPEAKER	14th Workshop on Fields and Assistive Robotics, Dagstuhl, Germany.
TOP 25	Microsoft Imagine Cup 2018 National Finals, Islamabad, Pakistan.
TOP 50	Huawei ICT Skill Competition 2017, Islamabad, Pakistan.
EXCELLENCE AWARD	ICPC Lahore National 2016, Lahore, Pakistan.

REFERENCES

Dr. Syed Atif Mehdi
 Director, Center of Robotics & Assistant Professor
 Faculty of Information Technology
 University of Central Punjab
 syed.atif@ucp.edu.pk

Saira Hafeez
 Assistant Program Manager
 e-Rozgaar
 Punjab Information Technology Board
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