

RIZWAN ASIF

Robotics & Artificial
Intelligence Architect
With Ingenuity for
Business Development.

PROFESSIONAL PROFILE

I am an enthusiastic architect with more than 12 years of experience in application and AI development, topped with practicalities of sales, marketing and management.

ACCOMPLISHMENTS:

- 2020 Huld Superhero, Finland
- 2019 Young Investigator Award AIKE, Italy
- 2018 Best paper award by ICHCI 2018, UK
- 2017 Honorable mention at 1776 Cup, Isb
- 2017 Grant for JAZZ XLR8 program MWC, Spain
- 2016 Joint Secretary of the Year, Award by NUST Science Society
- 2015 National Finalist in Microsoft Imagine Cup
- 2014 100%ile Score in Mensa IQ

SKILLS

HARD: ROS, Python, C++, Java, OpenCV, AWS, Azure, Google Cloud, DevOps, Graph-DBs.

SOFT: Cybersecurity, Functional Safety, Compliance Consulting, Agile.

PERSONAL: Leadership, Team Work, Management, Strategy.

LANGUAGES

English, Urdu

CONTACT DETAILS:

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CAREER HIGHLIGHTS

CyberSafety and Data Science Sales Rep.

Huld Oy | Oct 2019 - Present

My role at Huld is to find new opportunities in the field of Data Science, Functional Safety and Cybersecurity, I work closely with experts and clients to understand their needs, eventually converting them to sales using my own technical skills and experience.

I have worked with C-Suite Executives to Project managers across industries such as robotics, medical devices, railway and space.

Co-Founder

Codistan PK | Oct 2016 - Jun 2018

Started a digital studio pertaining to SEO, social media marketing, website and mobile development. My responsibility was to create and manage the technical pipeline of the organization as well as managing business linkages, hiring and training new recruits.

CERTIFICATIONS

Data Science for Business Leaders

Udacity Nano Degree | Feb 2022

Training in planning, building and managing data science projects. The contents includes creating a 100-day data science plan.

Functional Safety Expert

Risknowlogy | Sep 2021

Safety passport to practice functional safety management. Practical experience with medical devices and robotic products.

Cloud Architect

Udacity Nano Degree | Feb 2021

Expertise in architecting cloud solutions for high availability, reliability and redundancy.

Developing Android Apps

Udacity | Jan 2015

Developing and managing android applications for production.

EDUCATION

KTH, SE and Aalto University, FI

Masters Autonomous Systems & Entrepreneurship, 2020

- EIT Digital Scholarship.
- Entrepreneurship Track.
- Courses pertaining to Robotics, AI and ML.

National University of Science and Technology, PK

Bachelors in Electrical Engineering, 2016

- Four years program.
- Conference paper in robotics during final year.
- Joint secretary establishment in NUST Science Society.

INDEPENDENT

Self Taught

- J.C: Sales Management
- C.H: Safety-Critical Systems
- R.O: Elastic Leadership
- M.E: Deep Learning for Vision
- P.E: A.I as a Service
- V.K: Succeeding with A.I
- ND185: Secure and Private AI
- CS373: Artificial Intelligence.
- HGG1: ETH Robotics OS.
- UD120: Intro to ML.
- UD730: Deep Learning.
- CS253: Web Development.

RECENT WORK

Automotive Software Design

Project manager for a next-gen automotive software platform based on AUTOSAR and ISO-26262. The purpose of the software is to create an adaptive platform for OEMs to integrate services into ADAS.

Computer Vision Product Manager

Leading the product development of a computer vision based GNSS-Free Navigation for drones. In the process I learned about satellite imagery procurement, mapping and UAS flight regulations. In addition, the project involved machine learning and image processing.

Industrial Robot Safety Design & Compliance

Project manager for projects such as Medical Laboratory Robot, Disinfectant Robots and Autonomous Earth Moving Machinery. The development includes designing and compliance of electronic safety systems in accordance with ISO-13849, IEC-60204 and ISO/TS 15066.

Cloud Operations Management

Project manager for a large infrastructure's digital cloud and mobile application. The project entails digital operations management through embedded edge devices, azure cloud, and android/iOS applications.

Medical Devices

Project Manager for a connected software running on commercial OS devices. The project follows the practices of IEC-62304, IEC-62366 and ISO-13485. The end applications were targeted for European and Chinese markets.

Cybersecurity Compliance

Gap Assessments, Threat Modelling and Risk Analysis for several clients, including projects such as Mission Critical IoT Infrastructures, BLE Locator Systems and Marine Propulsion Systems. Standards include IEC 62443, UR E26 and E27.

Data Science Sales Initiative

Created data science strategy for the firm. The project activities include pitch decks, managing portfolios and developing new services. Achieved new business streams for the firm by selling data science projects to three customers so far.

ESA and EU Project Proposals

Participated in proposal writing process for several European Space Agency, Finnish Railways and EU Industrial RnD Projects.

PUBLICATIONS

Virrankoski, R. (2023). Autonomous Sensing using Satellites, Multicopters, Sensors and Actuators (MULTICO) - Final Report.

"Case Study for Semantic Search in Requirements Specification" 2020 Masters Thesis Aalto University Finland. R Asif.

"Placing Objects with prior In-Hand Manipulation using Dexterous Manipulation Graphs." 2019 IEEE-RAS International Conference on Humanoid Robots (Humanoids). Haustein. et al.

"Aerial Path Planning for Multi-Vehicles," 2019 IEEE Second International Conference on AIKE, Sardinia, Italy, 2019, Asif, et al.

"Whole-body motion and footstep planning for humanoid robots with multi-heuristic search" RAS (2019). Asif, et al.

"Whole-body motion planning for humanoid robots with heuristic search." Intelligent Robots and Systems (IROS), Athar. et al.

"Hand Gestures Based Emotion Identification Using Flex Sensors". International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, (2018), Ali, et al.

