

# RIZWAN ASIF

Robotics & Artificial  
Intelligence Architect  
With Ingenuity for  
Business Development.

## PROFESSIONAL PROFILE

I am an enthusiastic architect with more than 10 years of experience in application and AI development, topped with practicalities of business, 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, CE certifications, Agile.

PERSONAL: Leadership, Team Work, Management, Strategy.

## LANGUAGES

English, Urdu

## CONTACT DETAILS:

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## CAREER HIGHLIGHTS

### Account Manager

Huld Oy | Oct 2019 - Present

Working as a account manager, project manager and solutions architect. My responsibilities constitute working with sales teams and clients to sell software, cloud and robotics solutions. Once kick-off my goals are focussed towards coaching the team to success.

My expertise have been mostly consolidated around Cloud, IoT, Robotics, Cybersecurity and Functional Safety. During this course I have worked with several clients across Finland and abroad.

### 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.

My efforts revolved around building teams that can tackle any challenge.

## 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 Courses

Self Taught

- 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

### Industrial Robot Safety Design

Project manager for a 6DoF robot intended for a medical laboratory environment. The development includes designing of electronic safety system in accordance with ISO-13849, IEC-60204 and ISO/TS 15066.

### 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.

### Medical Device Cybersecurity

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.

### 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.

### Computer Vision Business Case

Creating, pitching, and testing of a business case entailing a computer vision product, targeted at commercial and national institutions.

### IoT Product Services

Project Manager for a centralized IoT system created in accordance with FDA's HACCP standard. The system allows reporting and management of the IoT enabled devices.

### 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 Project Proposals

Participated in proposal writing process for a European Space Agency project. The project entails Artificial Intelligence based fault detection and recovery system. The project was granted and continues till 2023.

## PUBLICATIONS

"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.

