

Muhammad Sohaib Ashraf

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EXPERIENCE

Software Engineer – Oneberry 12/19 – 05/20

Developed industrial level autonomous mobile robots and worked on AI-based features using SLAM and images from the camera while working with robotics R&D team.

Web Developer – Epullon 02/17 – 10/17

Worked as a back-end web developer and completed multiple web applications that went into production. Led a team of software developers.

PROJECTS

KenOB 03/20 – 05/20

Upgraded a robot of Oneberry Technologies. Converted it from 2d Sick Lidar to depth camera. It improved the performance of the robots while reduced the production cost significantly.

Sidewalk Robot 01/20 – 02/20

While working at Oneberry Technologies, I have developed an autonomous robot that can move on the sidewalk by applying Semantic Segmentation on an image from the camera.

Evolutionary Flocking Shooter 03/19 – 04/19

Developed a robotics simulation with Genetic algorithm in my Master's project. Which enabled bots to learn how to locate the target, avoid danger zone and it after finding its origin. I used Unity3d Engine and Genetic Algorithm. I got 92% marks in this module.

Demo Link: www.youtube.com/watch?v=A9k6WBoY548

EDUCATION

MSc Artificial Intelligence & Robotics 01/18 – 05/19

University of Hertfordshire (Distinction – 81%)

Modules:

- Theory and Practice of Artificial Intelligence and Robotics
- Artificial Life with Robotics
- Machine Learning and Neural Networks
- Investigative Methods in Computer Science

BS Software Engineering 02/13 – 05/17

University of Management and Technology

Modules:

- Information Retrieval
- Object Oriented Programming
- Assembly Language
- Digital logic design
- Computer Vision
- Computer Graphics

PROFILE

Autonomous robotics developer, worked as a Software engineer (Robotics) at Oneberry Technologies, Singapore. Graduated in MSc Artificial Intelligence and Robotics with a degree in Software Engineering. Ambitious to seek a career in robotics software development. Experienced in developing scripts using ROS, Isaac SDK, Python, C++, Image segmentation, SLAM, Artificial Intelligence, Neural network and Machine learning algorithm.

SKILLS

Coding

- Robotics
- Machine Learning
- Genetic Algorithm
- Artificial Intelligence
- Computer Vision
- Neural Network
- Game Development
- Image Segmentation
- ROS/Isaac
- Python
- C++
- C#
- TensorRT
- PCL
- Unity3d
- PHP

Other

- Teamwork
- Problem-solving
- Meeting deadlines
- Creative thinking

INTERESTS

- Badminton, Cricket and video games
- Travelling and learning new languages
- Learning about the latest research and technologies