Muhammad Sohaib Ashraf

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EXPERIENCE

Software Engineer – Oneberry   12/19 – Now
Developing industrial level autonomous mobile robots and also working on AI features using images from the camera.

Web Developer – Epullon   02/17 – 12/17
Managed to complete multiple web-based business applications that went into production. Led a team of software developers.

PROJECTS

Sidewalk Robot   01/2020 – 02/2020

Build an autonomous robot that can move on the sidewalk without mapping or localization. Used USB camera, Semantic Segmentation, TensorRT, C++, OpenCV, Python, Sabertooth, ROS and Isaac SDK. The robot can set its direction according to the sidewalk and avoid collision with obstacles.

Autonomous Robot   02/2020 – Continue

An indoor mobile robot that can autonomously move and avoid the obstacles without LiDAR. I used Realsense camera, Sabertooth, ROS, C++, Python, rtabmap and Teb local path planner.

Evolutionary Flocking Shooter   03/19 – 04/19

I have upgraded a game 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, Genetic Algorithm and C#. I got 92% marks in this module
Demo Link: www.youtube.com/watch?v=A9k6WB0Y548

EDUCATION

MSc Artificial Intelligence & Robotics   01/18 – 05/19
University of Hertfordshire (Distinction – 81%)

BS Software Engineering   02/13 – 05/17
University of Management and Technology

PROFILE

Autonomous robotics developer, working as a software engineer (Robotics) at Oneberry Technologies, Singapore. Graduate in MSc AI and Robotics (distinction) with a degree in Software Engineering. Ambitious to seek a career in software development as it's my passion since my young age and endorsed by others. I am experienced in developing artificially intelligent software using Python, C++, C#, OpenGL, OpenCV and machine learning algorithm.

SKILLS

Coding

- Machine Learning
- Game Development
- Robot Development
- Data Analysis
- Artificial Intelligence
- Genetic Algorithm
- Web Development
- C#
- ROS/Isaac
- C/C++
- Java
- TensorFlow
- Unity3d
- Python

Other

- Teamwork
- Problem Solving
- Meeting Deadlines
- Creative Thinking

INTERESTS

- Badminton
- Travelling
- Learning about the latest research and technologies