Ignat Georgiev

Roboticist | Machine Learning | Motion Control

Enthusiastic MSc graduate interested in Robotics and AI positions. Eager to contribute to team success through my unique skill set, experience, hard work and drive. Motivated to learn, grow and excel in the field of robotics.

Work History

2017-09 - 2020-06

Team Lead

Edinburgh University Formula Student, Edinburgh, UK
Established a student project to develop an autonomous racecar; led a passionate team of 60 students to 2 victories at an international competition, and have raised a budget of over £70,000. Designed an autonomous driving stack consisting of camera and lidar-based object detection, multi-sensor state estimation, SLAM and motion control.

2019-06 - 2019-09

Software Engineering Intern

Roborace, London, UK
Worked on autonomous driving software including motion planning, software integration and deployment.

Education

2015-09 - 2020-07

Master of Science: Robotics And AI

The University Of Edinburgh - Edinburgh, UK
- First-Class Honours (3.7+ GPA)
- Focus on robotics, machine learning, and motion control. Exposure to RL, physics, and electronics.
- Thesis: Adaptive Motion Control for Autonomous Racing using reinforcement learning and model adaption.

Projects

2020-07

I build and develop racing drones. Contributor to the open-source flight controller software Betaflight.

2019-12

Developed a mobile robot that can localize and navigate in a known environment. Equipped with a 3DoF arm, it can interact and pick up objects.

2019-04

I have developed an end-to-end RL algorithm to drive a car only from camera images in a simulation.

2018-12

Designed a pedestrian detection and identification system based on cameras and CNNs.

Contact

Address
Edinburgh, UK

Phone
+44 7561076116

E-mail
ignat.m.georgiev@gmail.com

WWW
imgeorgiev.com

LinkedIn
linkedin.com/in/imgeorgiev

Skills

C++ (11/14/17)

Python

CUDA

ROS

Concurrent programming

Robot Simulators

PyTorch / TensorFlow

Operating Systems / Unix

CI / CD / git / bash

Project Management

Teamwork / Collaboration

Leadership

Awards

- Inspirational graduate 2020
- Best robotics dissertation 2019
- Student employee of the year 2018