

Ignat Georgiev

Robotician | Machine Learning | Motion Control

Young professional with a passion for Robotics and AI. Interested in both the science and engineering behind them. Eager to contribute to team success through my unique skill set, experience, hard work and drive. Most effective in a role between cutting-edge research and engineering.

Work Experience

Robotics Engineer

Kopernikus Automotive, Germany

August 2020 - Present

Developing an autonomous valet parking solution in a modern and dynamic team. Focus on motion control aspects including path planning, optimization and control.

Founder & Team Lead

Edinburgh University Formula Student, UK

September 2017 - June 2020

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 the autonomous driving stack consisting of camera and lidar-based object detection, multi-sensor state estimation, SLAM and motion control.

Software Engineer Intern

Roborace, UK

June 2019 - September 2019

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

Education

MSc Robotics and AI

The University of Edinburgh, UK

2015 - 2020

- 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. Published as a research paper at Conference of Robot Learning 2020.

Contact Details

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GitHub: [imgeorgiev](https://github.com/imgeorgiev)

Technical skills

C++ (11/14/17)

Rust

Python

CUDA

ROS

Concurrent programming

Robot simulators

PyTorch

Operating Systems / Unix

CI / CD / git / bash

Professional Skills

Critical thinking

Project Management

Teamwork

Leadership

Honours & Awards

Inspirational graduate 2020

Best robotics thesis 2019

Student employee of the year 2018