

IGNAT GEORGIEV

Robotics & AI Engineer



ABOUT ME

Enthusiastic, dedicated and hard-working student graduating my Master's in 2020. I am passionate about robotics and believe that with the help of AI they will cause the next industrial revolution, and I would like to be part of it! This belief led me to establish an autonomous racecar student project within my university.

CONTACT ME

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LANGUAGES

English - profficient
Bulgarian - profficient
German - beginner

WORK EXPERIENCE

- Jun - Sept 2019 **SOFTWARE ENGINEER INTERN @ ROBORACE**
Developed a reference **autonomous driving software stack**. Involved in a variety of projects including software infrastructure, deployment, localisation, mapping and path planning
- 2017 - 2018 **INTERN @ INDIE SEMICONDUCTOR**
Worked on firmware development for custom microcontrollers for IoT and automotive applications.

EDUCATION

- 2015 - 2020 **MSC ROBOTICS & AI @ UNIVERSITY OF EDINBURGH**
Focus on Maths, Robotics and Machine Learning.
Exposure to physics, electronics, IoT and RL
Dissertation on Dynamic Path Planning and Control for an Autonomous Racecar in collaboration with Roborace
- Online courses **Self-driving Car Engineer Nanodegree @ Udacity**
Autonomous Mobile Robots @ ETH Zurich
Artificial Intelligence for Robotics @ Udacity
Deep Learning Specialisation @ Coursera

PROJECTS

Established an autonomous racecar student project to participate in the international Formula Student competition. Led a passionate team of about 40 students for 3 years and 2 victories in the UK competition, raising a budget of over £50,000+. This allowed me to obtain **practical hands-on experience** in the topics I am interested as well as develop my **team working, management, leadership and communication skills**.

Built and programmed my own racing drone capable of reaching 160 kph. Actively contributing to an **open-source drone flight control software**.

Developed a **distributed compute cluster** for student makerspace.

Designed an embedded **IoT Weather Widget** for home automation

SKILLS

C/C++	PyTorch	Operating Systems
Python	Tensorflow	Distributed computing
ROS	VC / git	Parallel computing
CUDA	CI & CD	Robotics simulators