IGNAT GEORGIEV
Robotics & AI Engineer

ABOUT ME

Entusiastic, dedicated and hard-working student set to graduate 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

2019 - 2019 **SOFTWARE ENGINEER INTERN @ ROBORACE**
Worked on a reference autonomous driving software stack. Involved in a variety of projects including software infrastucture, 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 collab. 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 with the goal of participating 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 intersted as well as develop my **team-working, management, leadership and communcation skills.**

Built and programmed my own racing drone capable of reachin 160 kph. Actively contributing to an o**pen-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