

Murat Kaan Meral

Email: muratkaanmeral@gmail.com

Phone: +31617240707

Website: <https://mkmeral.github.io/>

Github: <https://github.com/mkmeral>

Skills

Proficient: **Java, Python**, HTML
Intermediate: Javascript, **Tensorflow.Keras, Numpy**, Spring, SQL, **Bash**, Flutter

Education

September 2018 **Delft University of Technology**
July 2021 Bachelor's in Computer Science and Engineering, **GPA: 8.5/10**

September 2013 **TEV Inanc High School for the Gifted**
June 2018 International Bacculaureate

Experience

September 2019 **Full Stack DevOps Engineer** with Java, Bash, Spring and SQL
Present Integration Partners B.V.
Redesigned and modernized the unit testing tool Larva in our open source integration adapter framework used by companies such as ING and NN.

September 2019 **Project Krill**
Present Creating a fully automated **swarm** consisting of multiple types of robots for detection and removal of wastes such as algae or duckweed, using reinforcement learning to improve performance. Acting as the software team lead for six people.

September 2018 **Software Developer** with Python, Bash, Javascript, C++ and HTML
July 2019 Eco-Runner Team Delft
Developed an in-car telemetry system, driver dashboard, and ground based monitoring system.

July 2017 **Backend Developer Intern** with Python, Django and Bash
August 2017 Artistanbul.io
Created a Vagrant based development environment and upgraded server code for security fixes and optimizations.

Achievements

February 2019 **Honours Class, Next Generation Robotics**
July 2021 Selected as one of 15 students from 4 faculties based on academic success and past experience for **special interdisciplinary robotics education**.

October 2019 **Honours Class, Computer Science and Engineering**
July 2021 Selected for outstanding success at my programme for special for a special programme that focuses on personal growth and academic success.

July 2019 **Vehicle Design Award & 3rd Place Award**
Created a **neural network** for safety braking and real-time decision making for strategy engineers for *Shell Eco Marathon* Europe.

April 2017 **Chairman's Award & Finalist Award**
Developed a robot for *FIRST Robotics Competition* Steamworks challenge besides using our skills to help other teams and refugee children.

Projects

November 2019 **Team Rust**
Present The lead software developer in our European Rover Contest team. Responsible for path planning problem.

February 2019 **Zebro RL with Python and TF-Agents**
September 2019 Developed an agent for swarms using **deep reinforcement learning** for sweeping an area that can be used for patrolling, or search and rescue.

November 2015 **TEDxYouth @TEVITOL** with HTML
May 2016 Created a website, and managed light, sound and recording systems to meet TED regulations as a part of the organizer team.

September 2014 **Incnet** with PHP, Javascript and HTML
September 2017 Created a school management system to handle day to day management problems for school administrations.

Volunteer

December 2017 **Control Systems Advisor at FRC** with Java
March 2018 Responsible for providing technical support for both systems related and code base related problems.