Teodor Fratiloiu

E-Mail Address	teo@fratiloiu.com, teodor.fratiloiu@tum.de
Born in	1999 in Bucharest

Education

Oct 2017 – Sep 2020 (exp.)	**Technical University of Munich** Electrical and Computer Engineering, Bachelor of Science
2013 – 2017	High School: Mihai Viteazul National College, Bucharest

Experience

Current projects	**Bachelor's Thesis:** I am building a Machine Learning-powered facial detection tool which works on very small edge and IoT devices; I developed and end-to-end workflow for gathering image data, training ML models, then finally converting and deploying them as an app to the embedded hardware; a locally-running demo of my most recent implementation can be found at github.com/munober/tinyModels
	Student assistant: I am currently working with the Chair for IT Security (TUM-EI SEC), helping transition a part of the teaching material for one of their lectures to remote-teaching format; my work has me developing and writing up tasks and problems for students, then scripting, shooting and editing videos, handling most tasks end-to-end and independently.
Oct 2018 – Jun 2019	**adveisor (tutor) for the adveisor program (TUM EI):** I held soft-skills workshops for younger students on topics such as project and time management, group dynamics, teamwork and discussion moderation. I then supported them with developing a robot capable of playing a musical instrument. *(TU Munich)*
Mar – Apr 2019	**Intern for the eCARUS e-Mobility program:** I worked on the development of a decentralized lighting system for an application in the automotive industry. I specifically worked on programming an embedded Atmel board in C and using FreeRTOS. *(TU Munich)*
Nov 2017 – Jun 2018	**adveisee in the adveisor program (TUM EI):** I built an arduino-based sumo robot in an international team, with me being responsible for the hardware implementation of the sensors (IR, ultra-sound, contrast detection). *(TU Munich)*
2017 – 2019	**Summer camp tutor at Tumba SRL:** I have worked as a tutor in several German-language summer camps, with participating children aged 6-14. *(Brasov, Romania)*
April 2016	**Secretary-General at Model United Nations of Bucharest:** I was the leader of the organizing team of the 2016 edition of my high school's international MUN conference, with over 350 participants, 200 of which from abroad. *(Bucharest)*
2014 – 2018	**Delegate and Chair-Person** at international Model United Nations conferences I have taken part in 9 MUN conferences, in the positions of delegate, chairman and organizer, where I developed my communication skills, as well as befriended fellow students from over 20 foreign countries while broadening my world view. *(Rome, Budapest, Lübeck, Munich, Bucharest)*

Languages

German: Full proficiency	English: Native	Romanian: Native

Other Abilities

	Good knowledge of C, Python and FreeRTOS Experience with Linux and UNIX systems, Git, Photoshop, Final Cut Pro EU Driver's license (Category B)
Interests	IoT and Edge Applications, Hardware and Software Security, Machine Learning