Alvise de' Faveri Tron
MSc in Computer Engineering

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About me

I am an enthusiast and team-working Software Engineer with a varied background and a strong interest for low-level topics. I'm always looking for challenging technical problems and collaborative environments where I can learn from the best.

Education

BSc in Computer Engineering
Politecnico di Milano, Milano, Italy
September 2013 - July 2018

First two years in the Electronics Engineering course.

Exchange Program
CY Tech, Cergy, France
September 2019 - January 2020

Exchange Program focused on Data Analysis and Machine Learning.

MSc in Computer Engineering
Politecnico di Milano, Milano, Italy
September 2018 - Ongoing

Took courses on Operating Systems, Embedded Systems, IoT, Computer Architectures, Cryptography and Compilers.

Experience

Embedded Software Intern
OHB Italia
March 218 - August 2018

• Validated the on-board software of a satellite instrument.
• Developed the firmware for the interference mitigation module.

Software Team Lead
Skyward Student Association
October 2017 - September 2020

• Designed and developed the Hermes rocket's on-board software (ARM microcontrollers, custom OS & electronics).
• Coordinated the software team (6 people).
• 2 launch campaigns, ~1km apogee reached.

Compiler Engineer
rev.ng
September 2020 - Present

• Developed an LLVM Pass that is able to recognize and emit semantically rich types when decompiling.
• Prototyped a symbolic execution module.

Key Skills

Soft Skills	Programming	Technologies	Languages
• Team Organization	• C/C++	• LLVM	• Italian
• Problem Solving	• Python	• Keras	• English
• Tight Schedule Management	• Java	• Git	• French
	• Scala	• Django	
	• JS	• Microcontrollers	

Projects

Network Intrusion Detection with Neural Networks
Network security project developed at EISTI in collaboration with the French Gendarmerie.

Smart Interphone
An IoT device to be plugged into the interphone, realized with Contiki and MQTT.

Paper on Explainable AI
An article about the complexity and possible risks of designing and evaluating Explainable AI interfaces.

Beyond Common Ideas
BCI is a collective of artists, developers, djs and vjs born in 2011. I developed many of our hardware and software projects, ranging from interactive light shows to projection mapping installations.