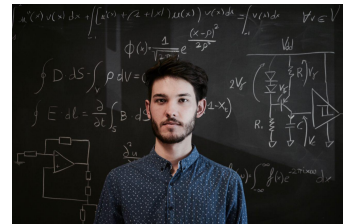


Mattia PRIMAVERA

1 Personal Data

PLACE AND DATE OF BIRTH: Alba, Italy | 13 April 1994
ADDRESS: 123 Hemingford Rd, Cambridge
PHONE: +44 (0)7856 375678
PHONE: +39 392 9877022
EMAIL: mattia.primavera9@gmail.com
LINKEDIN: /mattia-primavera-62110b13a/



2 Work Experience

FEB 2020	<p>CPU Graduate Engineer at ARM, Cambridge <i>Design and Verification</i></p> <p>Performance and power analysis on Cortex-N78.</p> <p>Formal verification</p> <p>Functional verification</p>
JUN 2019	<p>Internship at THALES ALENIA SPACE, Torino <i>Improvement of Vision Based Navigation System for Mars scenario</i></p> <p>Improvement of a feature extraction and tracking unit designed in VHDL used in the landing phase of a Mars Lander to calculate horizontal speed. Simulation and Synthesis on a Xilinx FPGA.</p> <p><i>Pose and attitude estimation for an autonomous drone based on Vision</i></p> <p>Study and implementation of a Inertial Optical Flow using a camera and an imu to estimate pose and attitude of an autonomous drone in a GPS denied situation</p>
OCT-FEB 2019	<p>Master thesis at TRAMA ENGINEERING, Alba <i>Design of a force sensing system for the haptic and touch interface of the Ferrari SF90 wheeler</i></p> <p>Developed a force sensor exploiting the change of magnetic reluctance of an haptic actuator when a pressure is exercised on a touch surface. Designed an electronic circuit able to convert this change in a variable duty cycle signal that can be handled by a microcontroller. Developed the required firmware to acquire this signal and elaborate it through algorithms in charge of the managing of the touch recognition. Performed temperature, repeatability and emc tests (including <i>radiated/conducted emissions and susceptibility</i> tests).After the design phase a PCB of a demo board has been created.Finally a touch force technology has been developed allowing to measure spatial coordinates and the recognition of touch gestures on whatever surface.</p>

3 Languages and Certifications

ITALIAN: Mothertongue
ENGLISH: Fluent | certificate IELTS B2, 2016
FRENCH: Fluent | certificate DELF B2 at "*Alliance française*", 2013
baccalaureat, Esabac
SPANISH: Basic knowledge

4 Education

APRIL 2019 Master of Science in ELECTRONIC ENGINEERING, **Politecnico di Torino**
107/110 | Major: Electronic systems
Thesis: "Design of a force sensing system " | Advisor: Prof. Maurizio ZAMBONI
GPA: 27.15/30

MARCH 2017 Bachelor's Degree in ELECTRONIC ENGINEERING, **Politecnico di Torino**
92/110 | GPA: 26/30

JULY 2013 Double High school diploma, **Liceo classico internazionale "G. Govone"**,
Alba, literary baccalaureate and French *Esabac / Grade 76/100*

5 Computer Skills

OPERATING SYSTEMS: Linux, Windows, Mac OS
PROGRAMMING LANGUAGES: Assembly, C, C++, C#, VBA, Python
System Verilog, VHDL, Verilog
SOFTWARE: Synopsys VCS, Mentor Graphics Questasim, Cadence Xcelium
Cadence JasperGold, Synopsys PrimeTime/PrimePower
Intel Quartus II, Cadence Design Compiler
Matlab, Simulink
Git, Gerrit, Jenkins

6 Personal skills and interests

COMMUNICATIONAL SKILLS:	respectful and empathic
MANAGERIAL SKILLS:	loyal, goal driven, result oriented high resistance to work under pressure strong orientation toward team working
MOTIVATION FOR CAREER:	need to improve myself and accomplish meaningful goals driven to lead a working team problem solving oriented
PERSONAL INTEREST:	electronics, rocket science, astrophysics, technology, finance sailing since the age of 8, running
DRIVING LICENSE:	category A1 and B
FLEXIBILITY TO TRAVEL:	yes
FLEXIBILITY TO RELOCATE:	yes

7 Achievements

Part of the Italian national sailing team at the European Championship of 2008, Équipe class, Quiberon (France).
Victories on several national sailing competitions as helmsman.