

# GANDOLFI LUCA

## PERSONAL INFORMATION

@ luca.gandolfi7@hotmail.com  
github.com/LucaGandolfi77  
linkedin.com/in/luca-gandolfi7

Phone Number: +39 3331827911  
Teams: luca.gandolfi7@hotmail.com

Software Engineer, well-rounded expert in Computer Science, graduated in Computer Engineering, Electrical Engineering and Telecommunications Engineering from Università degli Studi di Parma. Currently studying for Master Degree on Computer Science at Università degli Studi di Parma. I proudly work as Software Engineer at Aerospace & Defence Division of Alten Italia doing consultant services for the major companies of Aerospace business.



## EXPERIENCES

### Software Engineer – June 2022 - on going

- Software testing, software engineering, verification and validation, hw/sw integration for Aerospace & Defence at Alten Italia

### ICT Developer – December 2021 - June 2022

- Software testing, verification and validation, hw/sw integration for Aerospace & Defence at Alten Italia

### University Tutor – June 2019 / October 2019 / October 2021

- Teaching Go, Python, C and developing projects for the courses of "Foundations of Informatics", "Paradigms and Programming Languages" and "Foundations of Programming" at Università degli Studi di Parma

## EDUCATION

### Master Degree - Computer Engineering

September 2018 – on going      Università degli Studi di Parma, Italy

### Bachelor Degree - Computer, Electrical and Telecom Engineering

September 2013 – December 2018      Università degli Studi di Parma, Italy

- Thesis: An overview of Internet of Things: challenges and opportunities

## PROJECTS

### Emotion Detection Project with BERT with PySpark parallelization

- Comparison between models for Natural Language Processing and detecting emotions using Machine Learning, optimization and scalability enhancement of a Dataframe on Pyspark

### Simulating an IOT systems applied on a farm

- Using IOT and Java Californium framework to make small nodes communicate using Java

### Real time scheduling on clock driven project

- Using C++ to schedule a real time application on a clock driven simulation

### Using STM-32 microcontroller to send data using CAN

- Receiving data from I2C sensor and sending data through CAN to control PWM using FreeRTOS to manage embedded resources

### Plugin for Stellarium to control a telescope

- Creating a Qt plugin to calculate trajectories for stars and satellites and sending commands to a telescope using OpcUa

### Software to check distances using LIDAR

- Updating a system of 3 coordinated LIDARs and adding features to the application running on an avionic computer

### FTP data exchanging between avionic computers

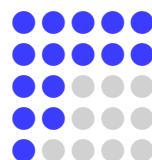
- Creating a routing environment for multiple avionic systems to communicate and exchange data via FTP

### Linux porting of avionic SDK with graphic interface

- Linux porting of a Windows SDK with graphic interface using Qt and AFDX communication protocol

## LANGUAGES

English



Italian

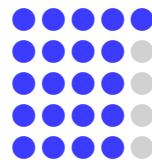
French

Spanish

Russian

## PROGRAMMING SKILLS

Python



C++

C

Microsoft Office

Bash

Java

SQL

Javascript

Go

OpenGL

Assembly

HTML

Haskell

## SKILLS

Deep Neural Networks      Pyspark

Pandas      Google Colab      BERT

Tensorflow      KNN      Linux      IOT

Qt      GitHub      Weka      AI

## SOFT SKILLS

Communication      Problem Solving

Creativity      Logical Reasoning

Team Work      Empathy      Agile

Responsible      Time Management

## INTERESTS

Tech News      Video Editing

Photo Editing      Social Media

Books      Piano      Climbing