GANDOLFI LUCA

PERSONAL INFORMATION

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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 mayor 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 "Foundaments of Informatics", "Paradigms and Programming Languages" and "Foundaments 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 · AI · Books · Piano · Climbing