

# Davide Giancola

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## Education

### Istituto Tecnico Statale Commerciale e Geometri Guglielmo Marconi

*Penne Italy*

HIGH SCHOOL DIPLOMA IN ACCOUNTING AND PROGRAMMER

*Sep 2005 - July 2010*

- Business economy, Financial sciences, Private and Commercial law
- Information technology and data processing

### University of L'Aquila

*L'Aquila Italy*

BACHELOR'S DEGREE IN COMPUTER ENGINEERING

*Sep 2010 - Dec 2015*

- Good knowledge of math disciplines
- Web programming and Object Oriented Programming, Operating Systems, Computer architectures, Database, Electronic systems, Signal analysis and Signal processing, Theory of Systems and automated control

### University of L'Aquila

*L'Aquila Italy*

MASTER'S DEGREE IN COMPUTER AND AUTOMATION ENGINEERING

*Dec 2015 - Present*

- Software Engineering, Algorithms Engineering, Interactive systems, Responsive Web Design, Telecommunications networks, Combinatorics and Cryptography, Mobile applications, Geographical databases, Linear optimization, Digital electronic systems, Embedded System

## Skills

<b>Programming</b>	Java, PHP, C/C++, C#, Javascript
<b>Mark-up Language</b>	XML, HTML, CSS, Latex
<b>Modeling Language</b>	UML
<b>Framework</b>	Laravel, Spring, .Net, Hibernate, Bootstrap
<b>Development IDE</b>	JetBrains Package, Eclipse, NetBeans, Visual Studio, Android Studio, Sublime Text, Etc
<b>DMBS</b>	MySQL, Postgres with PostGis plugin, MongoDB, SQLite, Oracle
<b>Networking</b>	Managing and Maintaining the Servers, PC's, Routers and Switches. Configuring, Managing and Maintaining Networking Equipments Cisco CCNA Routing and Switching certification Part 1 Installing, configuring and administering network technologies
<b>Embedded System</b>	Basic knowledge about technologies, methodologies and tools for HW/SW developments.
<b>Methodology</b>	Excellent Knowledge in Software Engineering and Design(GOF Pattern), Agile methodology, RUP, SCRUM. In-depth knowledge of the main architectural patterns: MVC, ER, Client-server, Layered.
<b>Other</b>	Principles of responsive web design and User-Centred Design.
<b>Operating System</b>	Windows, Linux, MacOSx
<b>Languages</b>	Italian, English

## Project experience

### University of L'Aquila Thesis

*L'Aquila*

DESIGN AND DEVELOPMENT OF A SYSTEM FOR MONITORING HUMAN FLOWS INSIDE AND OUTSIDE OF UFFIZI MUSEUM

*jan - mar 2018*

- Integration of a web server developed with the Spring framework with a Weather Station and with software that detects the density of people through a camera system
- Development Android application to monitor live data

### University of L'Aquila Project

*L'Aquila*

SOFTWARE FOR MANAGING A FLEET OF DRONES

*dec 2017 - jan 2018*

- RUP Design
- Implementation using Laravel Framework

### Independent Job

*L'Aquila*

MOBILE APPLICATION FOR THE MONTHY'S IRISH PUB IN L'AQUILA

*nov - dec 2017*

- Development Android application for management menu and events

### University of L'Aquila Project

ALGORITHM FOR RISK ASSESSMENT OF LANDSLIDES APPLIED TO ABRUZZI RAILWAY STATION AND LINES

*L'Aquila*

*may - july 2017*

- Designing Algorithm implementing through the use of GIS technologies

### University of L'Aquila Project

POSITION CONTROL OF A QUADROPTER

*L'Aquila*

*may - july 2017*

- Implementation of an LQR controller for the execution of trajectories of a quadcopter (CrazyFlie)

### University of L'Aquila Project

BOOT RTOS ON DIFFERENT BOARDS

*L'Aquila*

*april - may 2017*

- Testing the VxWork boot on the CyclonV and ZedBoard boards

### University of L'Aquila Project

SOFTAIR WEB APPLICATION

*L'Aquila*

*january - march 2017*

- Designing and Implementation of Web Application for the registration to softair games, to purchase and sale of sports equipment
- Responsible for Integration with google weather and OpenStreet API

### University of L'Aquila Project

SIMPLIFY 3-DES

*L'Aquila*

*july 2016*

- Implementation of the simplify 3-DES algorithm with JavaFX interface

### University of L'Aquila Thesis

*L'Aquila*

ANALYSIS, EXPERIMENTATION, AND INTERFACING OF OPERATING SYSTEMS FOR WIRELESS SENSOR NETWORKS

*october - december 2015*

- Software development for communication between sensor node with TinyOS and Contiki Operative System in a heterogeneous WSN

## Organizational and management skills

Problem Solving, Flexible adaptation to new situations, High speed in learning new technologies, Adoption of iterative development techniques, Team working, Great desire to grow professionally.