



Gioele Cicchini

SOFTWARE ENGINEER · SOFTWARE ARCHITECT

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“Software is a great combination between artistry and engineering.”

Education

University of L'Aquila

L'Aquila Italy

MASTER'S DEGREE IN COMPUTER ENGINEERING AND AUTOMATION

Mar 2016 - 2018

- Software Engineering, Software Architecture, Software Quality Engineering, Engineering of algorithms, Interactive systems, Geographical databases, Embedded System, Combinatorics and Cryptography

University of L'Aquila

L'Aquila Italy

BACHELOR'S DEGREE IN COMPUTER INFORMATION

Sep 2013 - Mar 2016

- Good knowledge of math disciplines
- Training activities in the field of information engineering such as circuit theory, electronic systems, signal analysis and signal processing, theory of Systems and automated control, computer architectures and Object Oriented Programming

Skills

Programming	C++, C, Python, Javascript, Java, C#, VHDL, Javascript, PLpgSQL, SQL, UML, CSS, LaTeX
Framework	Qt, React, GWT(Google Web Toolkit), Hibernate, Unity3d
Development IDE	Qt Creator, JetBrains Package, Eclipse, NetBeans, Android Studio, Ada Multi
DMBS	MySQL, Postgres with PostGis plugin
Networking	Managing and Maintaining the Servers, PC's, Routers and Switches. Configuring, Managing and Maintaining Networking Equipments, Installing, configuring and administering network technologies
Embedded System	Micro-controller programming: ESP32, ARM, Arduino Based. FPGA programming: VHDL with experience of Xilinx software. Architectures on custom boards with multiple microcontrollers. Development of custom carrier board. Use of multiple sensors breakout-board
Methodology	Excellent Knowledge in Software Engineering and Design(GOF Pattern), Agile methodology, RUP, SCRUM. User-centered design (UCD). Advanced use of UML with profiling. Queueing theory applied to software performance. In-depth knowledge of the main architectural patterns: MVC, MVP, Client-server, Layered.
Other	Electronic warfare systems, Principles of space SW Engineering, Principles of responsive web design
Certification	Qt And QML Essentials, Cisco CCNA Routing and Switching certification Part 1
Languages	Italian, English

Experience

HMI for Electronic Warfare Systems

ELETTRONICA S.P.A

Roma

2019 - present

- HMI for CESM (Communications Electronic Support Measures)
- HMI for EWM (Electronic Warfare Manager)
- Great attention to the reuse of sw components
- Great experience with Qt in C++

Digital map generator (GIS) for Augusta AW101

CONSULTING IN LEONARDO (MODIS)

Pomezia

2018 - 2019

- Developed algorithm for high resolution terrain caching system (DTED2,DEM)
- On Board Software DO-178B Compliant
- Geografic database generation Tool

Cryptographic algorithms on avionics platforms: Development and performance analysis

THALES ALENIA SPACE

L'Aquila

dec - jan 2017

- AES 128/192/256 bit Implementation for LEON4 processor with static allocation only in C
- Implementation of ECB (Electronic Codebook), CBC (Cipher Block Chaining), GCM (Galois Counter Mode) operating mode

Pub application containing menus and event management

MONTHY'S IRISH PUB

L'Aquila

dec - jan 2017

- Native Android App in Java
- UI design and notification management with Firebase

Algorithm for risk assessment of landslides applied to Abruzzi railway stations

UNIVERSITY OF L'AQUILA PROJECT

L'Aquila

may - july 2017

- Designing Algorithm an implementing through the use of GIS technologies

Position control of a quadricopter

UNIVERSITY OF L'AQUILA PROJECT

L'Aquila

may - july 2017

- Designing a simulation in Unity3d of a controller
- Implementing the controller on the drone, through image recognition(OpenCV)

Making a video-game in Java (TankWar)

UNIVERSITY OF L'AQUILA PROJECT

L'Aquila

january - july 2016

- Responsible for the client-server interface of the game
- Responsible for server architecture

Designing a UI for the elderly (EasyFB)

UNIVERSITY OF L'AQUILA PROJECT

L'Aquila

november - february 2016

- User centered Design
- Social network for elders

E-commerce Website

INDEPENDENT JOB

L'Aquila

march - july 2016

- Implemented a Small E-commerce website

Making a Web Application with GWT (Thesis)

UNIVERSITY OF L'AQUILA PROJECT

L'Aquila

november - march 2016

- Design and implementation of an E-commerce through the use of the GWT framework

Honors & Awards

ITALIAN COMPETITION

2017 **First place**, GSSI Hackathon OpenData Ricostruzione

Italy, L'Aquila GSSI

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.