GERMÁN RODRIGUEZ

Robotics Engineer and Software Developer

Genova, Italy

German Rodriguez

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WHO AM I?

I'm a recently graduated Robotics Engineer and Developer with a M.Sc. on Mechatronics Engineering and Bachelors on both Mechanical and Electronics Engineering. I've also learned about web technologies by working on several projects related to enhancing robotics applications with the power of the Internet. I'm passionate about programming, robotics and the web, and always eager to learn and have an impact.

SKILLS

```
Python / JavaScript / C++ / C# / Docker
/ Agile/SCRUM / Linux / Git
```

LANGUAGES

Spanish - Native   **English** - Fluent   **Italian** - Fluent
German - Basic

EXPERIENCE

2021
Present

Robotics Software Engineer   **Instituto Italiano di Tecnologia.**
Developed a pipeline for quickly and easily deploying applications in robots through Docker containers. Developed the source code for several applications in Python and C++. Actively maintaining the IIT website where these apps are stored. Worked on firmware for AMC motor drivers. Worked using the Agile/SCRUM methodology.
```
Docker / C++ / Python / Bash / Angular
```

2020 – 2021

Robotics Engineering Intern   **ABB Ltd**
Developed a web application for automated Pick-And-Place using ABB Robots and Computer Vision algorithms. In charge of all initial phases of the project from architecture planning to MVP.
```
ASP.NET / JavaScript / MySQL / OpenCV / ABB RWS API
```

EDUCATION

2018 – 2021

Master's Degree - Mechatronics Engineering   **Politecnico di Milano**
Graduated with a high final grade after completing courses on advanced control techniques, robotics systems, kinematics, and more.

2012-2018

Bachelor's Degree - Electronics Engineering   **Universidad del Norte**
Graduated with honors after completing courses on communication protocols, electronic design, programming basics, electronic circuits, among others.

2012-2018

Bachelor's Degree - Mechanical Engineering   **Universidad del Norte**
Graduated with honors after completing courses on control schemes, mechanical design, kinematics, thermodynamics, among others.

VOLUNTEERING PROJECTS

2021

Robotic Automation of Laboratory for Faster Covid-19 Testing   **Covmatic**
Increased COVID-19 testing capabilities of a laboratory in Italy by automating the process with programmable robots. In charge of communicating and interfacing with the robots as well as developing a backend Flask service that connects to the Hospital's servers.
```
Python / Flask / Bash
```

TRAININGS

2022   **Training on the unit testing using GTest/GMock**   **Istituto Italiano di Tecnologia**

2021   **Training on Docker/Docker Compose/Docker Swarm**   **Istituto Italiano di Tecnologia**