Marco Fabris

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Career Objective

A challenging entry-level engineering research position in the field of robotics and automation, working alongside experienced professionals to keep expanding my skills and push the boundaries of the industry.

Summary of Qualifications

- Master's student in Electromechanics – specialization in Intelligent Mechanics
- Programmed the motion software for a three-axis pick and place robot using LabVIEW
- Created a physical model of a solar-powered rover using MATLAB
- Designed and built an autonomous vehicle for my own personal project

Education

MSC. ELECTROMECHANICAL ENGINEERING | EXPECTED JANUARY 2019 | K.U. LEUVEN

· Specialization: Intelligent Mechanics

· Related coursework: Computer-Aided Modeling and Simulation, Embedded Control Systems, Advanced Automation

BSC. INDUSTRIAL ENGINEERING | 2014 - 2018 | K.U. LEUVEN

· Major: Electromechanical Engineering

· Related coursework: Control Theory, Signals and Systems, Electrical Engineering, Industrial Automation, Mechanics

Projects & Experience

AUTONOMOUS TRACKED ROBOT (HOBBY PROJECT) | JULY 2017-MAY 2018

· Designed and built a small rover that used a suite of computer vision sensors to patrol the house garden, identify select targets and spray them with water.

MATLAB MODELLING (STUDENT PROJECT) | K.U. LEUVEN | FEBRUARY-MAY 2016

· Led a group of six students to create the physical model of a small solar-powered racing vehicle, using MATLAB to solve differential equations and find optimal vehicle parameters such as mass, gear ratio and wheel radius in order to minimize track times. The team went on to win the competition, being the fastest car out of approximately 20 participants.

ROBOT AUTOMATION (STUDENT PROJECT) | K.U. LEUVEN | OCTOBER-DECEMBER 2015

· Designed and programmed the movements of a board-game playing robot using LabVIEW. The robot could automatically navigate three-dimensional space to pick up, move and release objects at specific positions on the playing board.

QUALITY CONTROL (JOB ETUDIANT) | GLAXOSMITHKLINE | AUGUST 2010

· Responsible for carrying out some quality assurance tests such as syringe glass crush resistance, stopper durability, stopper water tightness.

Skills & Abilities

HARD SKILLS

· LabVIEW DAQ, MATLAB, C++, Python (beginner, followed tutorials and MOOCs e.g. CS50, programmed a raspberry pi)

· Solidworks (intermediate)

· Siemens PLC software (beginner, used the software in two automation courses)

· Excel (intermediate, followed courses on linear programming with Excel)

SOFT SKILLS

· Presentation and Negotiation Skills

· Operations and Project Management

· Italian (native speaker)

· English (bilingual fluency, attended school in English since the age of 14)

· French (conversational, 2 years of courses)

· Dutch (basic, completed an online course)