

# Marlon Gwira

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I'm a final year Mechatronics Engineering undergraduate at Middlesex University. Currently looking for a graduate job where I can put into practise my technical skills such as 2D Design, 3D CAD, Programming and Pneumatics. My current work experiences have enabled me to hone my communication, time management and team working skills. I'm a self-motivated individual, keen to learn new skills and professionalise my current knowledge of the design and manufacturing processes in the industry.

## SKILLS

- Knowledge in ROS (Robot Operating System)- Currently building a mobile robot as my major Final project.
- Experience in ABB programming- Programmed the IRB 120 manipulator for university assessment in Rapid.
- Experience in 2D Design and 3D CAD using SOLIDWORKS and Autodesk – Created 3D models for university projects as per the project brief such as the IMechE Design Challenge.
- Experience in LABVIEW, Python, MATLAB, C programming, Fluidsim and Arduino - Programmed mobile robots for competitions such as Eurobot and other university projects such as the cup gripper (<https://www.youtube.com/watch?v=25sCUt5no8M>).
- PLC programming – Programmed electro-pneumatic valves with given sequence.
- Strong foundation in Electronics – Circuit knowledge, Soldering PCBs, Hardware prototyping such as breadboarding.
- Proficient in Microsoft office packages – Making presentations and data acquisition and analysis in Microsoft Office.
- Workshop skills – Experience in using the lathe and other machine tools.
- Communications skills – Honed by handling specialist product queries.
- Organisational skills – Planning of work duties to meet daily target as sales assistant in Zara.
- Time management – Meeting deadlines for university projects submissions.

## EDUCATION

**2015 – 2018: BEng Mechatronics Engineering (Hons), Middlesex University.**

Modules: Control Systems, Robotics and Mechatronics, Design Engineering Projects, Physical Computing Electronics and Programming and Engineering in Context.

**2008 – 2014: Mechanical chief technician, I.T.I.S. A. ROSSI, Italy.**

- Technical drawing – 2D and 3D drawing of mechanical parts with Autodesk package.
- Control systems – Arduino programming etc.
- Electronics – Built a foundation in basic electronics (soldering PCBs etc.).

- Workshop – Trained to work with the lathe and some types of welders such as the oxyacetylene welder.

## WORK EXPERIENCE

### **Sales Assistant, Zara, May 2015 – Present. •**

- Organizing and arranging the stockroom.
- Giving status updates periodically to the manager.
- Replenishing purchased items whilst providing exclusive products requested by customers.

### **Labourer (level C), Pietro Fiorentini, June 2011-Dec 2011.**

- Mounting of pressure regulators and sorting of gas valves.
- Cleaning and maintenance of CNC (Computer Numerical Control).

## ACHIEVEMENTS & HOBBIES

- Fourth place in Robotics National finals at WorldSkills UK 2017
- Achieved a regional tennis award,
- Basketball and futsal (5 aside football).
- Competent in playing in the piano, bass and drums.