

# Marlon Gwira

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Location: LONDON website: <https://marlong21.github.io/>

A skilled Mechatronics Engineer with experience working in the financial and robotics sectors, specialising in robotics. Passionate about technology, highly adaptable, and always eager to learn.

## SKILLS

- Experience in Amazon Web Services: **EC2, Alexa skills, Lambdas, DynamoDB** etc.
- Computer Vision- Object detection and recognition (**Python-OpenCV**).
- Web development: **HTML5, JavaScript, CSS3, NodeJS, React, Bootstrap**.
- Programming Languages: **Python, Java** (Foundation), **C#** (Foundation).
- **Communications skills** – Honed my business writing and communication skills by interacting with internal stakeholders and team members daily.
- Test Driven Development (**TDD**).
- Software development approaches – **pair programming, mob programming**.
- Version control – **GIT**.
- Project management and Time Management – Worked in an Agile environment (**Scrum & Kanban**) applying the Continuous Integration and Continuous Deployment (**CICD**) method to deliver the Minimal Viable Product to stakeholders.

## EXPERIENCE

### Hardware Engineer, Moley Services, June 2019 – September 2020

- Assembly of automated or semi-automated systems.
- Design of mechanical systems (with Solidworks and Fusion360).
- Testing of robotic subsystems.
- Dealing with manufacturing companies.

### Software Developer, RBS, September 2018 – June 2019.

- Part of the backend team that provide with software features for internal applications.
- Languages used: Java, C#, Python, JavaScript, HTML5, CSS.
- IDE: Eclipse, Visual studio, PyCharm and Visual Studio Code.
- Closely worked with AWS services to provide solutions.
- Working in an agile environment implementing CICD.

## 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.
- Final Year Project: Designed, built and programmed a mobile robot in ROS with UI functionalities.  
The aim of the project was to educate an inexperienced audience about the core functionalities of mobile robots.

**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.

**ACHIEVEMENTS & HOBBIES**

- Fourth place in Robotics National finals at WorldSkills UK, 2017.
- Hackathon – Attended the NatWest payments hackathon where my team and I developed a functional proof of concept that allowed customers to make payments without their card. Users were authenticated using their face (AWS Rekognition) and their voice (VoicePIN).
- Achieved a regional tennis award.
- Basketball and futsal (5 aside football).
- Competent in playing in the piano, bass, and drums.

**LANGUAGES**

- English.
- Italian.
- Twi (Ghanaian Dialect).