

# Bilal Minhas

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## PROFILE

Engineer and self taught programmer who loves coding and is excited for the opportunity to use and enhance existing knowledge as well as learn new languages and frameworks.

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## EDUCATION

**2019-19, DataCamp**, Data Scientist with Python (100 hours) – Python.

**2018-19, Free Code Camp**, JavaScript Algorithms And Data Structures Certification (300 hours) – JavaScript.

**2018-19, Free Code Camp**, Responsive Web Design Certification (300 hours) – HTML and CSS.

**2018-19, University of Leeds**, MSc Engineering Technology and Business Management, **Expected Merit**.

Relevant Modules: Programming: 78%.

**2015-18, University of Sheffield**, BEng Mechanical Engineering, 2:2.

**2013-15, Boston Grammar School**, A-Levels: Mathematics: A\*, Further Mathematics: A, Physics: B, Economics: C.

**2011-13, Boston Grammar School**, GCSEs: 3 A\*s, 7As, 1B (including English and Mathematics).

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## PROGRAMMING SKILLS

Knowledge and experience in the following:

- Python
  - MATLAB
  - C
  - HTML
  - CSS
  - JavaScript
  - SQL
  - Git and version control
  - Arduino
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## TRANSFERABLE SKILLS

- **Self-learning and continuous improvement** – Eager to increase knowledge and learn new skills.
  - **Problem solving** – Excited by the opportunity to solve increasingly challenging problems.
  - **Data Science** – Confident and passionate.
  - **Design skills** – Eye for design. Extensive experience in academic design teams.
  - **Knowledge and experience of engineering software** – AutoCAD, Fluent, LabView, SolidWorks, etc.
  - **Laboratory skills** – Experienced in data collection, data analysis and experimental procedures.
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## PROJECT EXPERIENCE

**September 2017 – April 2018, Final Year Project – Dissertation on Condition Monitoring, Sheffield**

- Programmed an Arduino device to collect vibration data from a bicycle. Created programs and functions on MATLAB to analyze the data and diagnose damage on the bike. Produced a 40-page technical report looking at the use of condition monitoring for identifying mechanical damage in bikes.

**January 2017, Engineering You're Hired, Sheffield**

- Worked in an inter-disciplinary engineering team to create an innovative crop health monitoring system involving the use of drones and ground robots. Produced technical design reports for this system. Presented the idea to engineers currently in the industry, it was received well with very positive feedback.

**January 2016, Global Engineering Week, Sheffield**

- Designed the infrastructure for a cost-effective large-scale water supply requiring the addition of a pump to take water uphill for a long distance. Developed team-working and effective communication skills to facilitate a productive environment and meet demanding deadlines.
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## ADDITIONAL EXPERIENCE

**October 2018 – LUU JobLink (Leeds University Shift Work)**

- Shift work comprising of moving furniture; operating an event kiosk; and working as a car park marshall.
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## LINKS

- **Personal Portfolio:** <https://bilalm354.github.io/Bilal/>
  - **GitHub:** <https://github.com/Bilalm354/>
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