Harvey-Jay Portas-Jones

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About Me:

I'm a passionate and driven MEng student at the University of Hull, specializing in Mechatronics and Robotics. With a strong foundation in electronics, mechanical design, software engineering, and robotics, I'm excited to take the next step in my engineering career. Throughout my studies, I've had the chance to work on a range of hands-on projects (check out some of them here). A standout experience was developing a rehabilitation exoskeleton BCI arm for stroke recovery. This project combined multiple engineering disciplines and solidified my passion for using creativity and technical expertise to solve real-world challenges.

Looking ahead, I'm eager to continue growing as an engineer and contribute to projects that make a positive impact on society. I'm adaptable, a fast learner, and excited about new challenges. Ready to collaborate and make a difference, I'm looking forward to the next phase of my career.

Thank you for taking the time to read this!

Sincerely,
Harvey-Jay Portas-Jones

Harvey-Jay Portas-Jones
Roboticist
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Professional Summary

A young, driven engineer specializing in Mechatronics and Robotics, with a passion for advancing technologies that shape the future. Eager to take the next step in my career, I am ready to apply my hands-on experience in electronics, mechanical, and software engineering. With a background that spans both academic study and practical industry exposure, I am motivated to continue learning and making impactful contributions to the engineering field.

Technical Skills

- **Mechatronics & Robotics**: Proficient in designing and implementing robotic systems.
- **Electronic & Mechanical Engineering**: Solid foundation in circuit design, PCB layout and sensor integration.
- **Software Engineering**: Experience in software development for robotic systems and embedded systems. I have experience in game development and using software such Node-Red and MariaDB (a fork of MySql).
- **3D Printing**: Skilled in using 3D printing for prototyping and system development.
- **Networking & Cyber Security**: Basic understanding of networking protocols and a growing interest in security and automation. Versed in softwares such as Node-Red.

Professional Experience

-Wishes Care and Support — Domiciliary Care Giver

June 2022 – September 2023

- Provided essential care for elderly, disabled, and vulnerable individuals, ensuring their safety, well-being, and comfort.
- Delivered personal care and assisted with daily living activities.
- Supported clients in maintaining independence, providing both physical and emotional support.

Volunteer Experience

-Nippon Gases — Shadowing Engineers

June 2020 | Immingham, UK

- Shadowed a team of engineers to gain firsthand experience in industry.
- Assisted with maintaining dry ice machinery, constructing electronic components, and re-organizing workspaces.
- Participated in plastic welding and other engineering tasks, gaining valuable practical knowledge of engineering processes.

Education

-University of Hull — MEng in Engineering and Computer Science

October 2021 – June 2025 | Hull, United Kingdom

- Specializing in Mechatronics and Robotics.
- Focused on both theoretical and practical aspects of robotics, automation, and embedded systems.

Certifications

- **MEng Mechatronics and Robotics** — University of Hull, Expected July 2025
- **Level 3 Mechanical, Electrical, and Electronic Engineering** — Grimsby Institute, June 2020

Projects

Arm Rehabilitation Exoskeleton

September 2024 – June 2025

- Designed and developed a rehabilitation exoskeleton to assist in acute stages of stroke recovery.
- Utilized an EpochX Portable EEG headset to monitor and adapt the exoskeleton's response to the user's movements and neural signals.
- Focused on **Robotics**, **Electronic Engineering**, **Mechanical Engineering**, **Software Engineering**, **3D Printing**, and **Networking** to build a functional, user-friendly system aimed at improving stroke recovery outcomes.

Languages

- **English**: Native speaker

Interests

- Mechatronics and Robotics
- Engineering (Mechanical, Electronic, Software)
- Robotics, Automation, and Electronics
- Cyber Security and Networking
- Databases
- Video Games
- Films