

Dear Hiring Manager,

I am writing to express my strong interest in the Graduate Electrical Engineer position at Monitra, as advertised on Gradcracker. As a final-year Electronic Engineering student at the **University of Manchester** on track for **First-Class Honours**, I have developed a deep fascination with signal integrity and embedded systems. I am eager to apply this technical foundation to Monitra's mission of ensuring the safety and reliability of high-voltage networks through cutting-edge partial discharge monitoring.

Monitra's reputation for providing innovative condition monitoring solutions to the global energy sector is what draws me to this role. My background aligns closely with the technical rigour required for your Technical Assurance and Test Services departments:

- **Hands-on Hardware & Validation:** During my internships at **Lattice Semiconductor** and **AMD**, I specialized in silicon validation and LPDDR4/DDR3 software IP support. I automated pin assignments and PCIe endpoint capability extraction using Bash and Python, reducing manual errors and accelerating diagnostic workflows—skills I hope to bring to Monitra's data analysis and reporting processes.
- **Embedded Systems & Control:** As the lead coder for a PID-controlled line-following buggy, I gained extensive experience in MCU programming and sensor integration. This project sharpened my ability to translate complex physical signals into actionable digital data, a core requirement for analyzing high-voltage plant condition data.
- **Technical Communication:** My academic and professional experience has required me to author detailed design documentation, test plans, and final reports for stakeholders. I am proficient in **Advanced Excel**, VHDL, and Matlab, and I am comfortable presenting technical findings to senior engineers and clients.

What excites me most about Monitra is the opportunity to learn from industry experts while working on technically challenging equipment that has a real-world impact on infrastructure reliability. I am a flexible team player who thrives in fast-paced environments, as evidenced by my participation in multiple **Hackabots** and **AI Hackathons**.

Thank you for your time and consideration. I have attached my CV and look forward to the possibility of discussing how my engineering background and drive for innovation can contribute to the team at Monitra.

Sincerely,

Jie Han Oh