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Graduate Recruitment Team

South32
Cannington Operations
McKinlay, Queensland

Dear Recruitment Team,

I am writing to express my strong interest in the Control Systems Engineer position recently advertised for South32's Cannington operation. While I understand the role is intended for experienced professionals, I am currently in my final year of a dual degree in **Electronic Systems and IoT Engineering and Information Technology** at **James Cook University** and am highly motivated to bring my academic and practical experience to a forward-thinking, sustainability-driven company like South32.

Throughout my academic journey, I have gained hands-on experience with multiple programming languages, including Python, C++, JavaScript, and Java, as well as various tools such as MATLAB, AutoCAD, and Fusion 360. I have worked on several projects that required integrating hardware and software systems, such as designing a capacitive water level sensor, creating games using VHDL and FPGA technology, developing an automated mini production line using PLC programming, and building embedded control systems for CNC machines, where I was responsible for schematic and PCB design. These experiences have honed my problem-solving abilities, attention to detail, and understanding of system architecture.

In addition to my academic work, I completed a software engineering internship at **SafetyCulture**, where I contributed to backend development projects involving AI-powered incident summaries. This role gave me exposure to cloud-based services, API design, and database management using PostgreSQL and gRPC. Collaborating with teams improved my communication and adaptability in fast-paced environments.

What excites me about South32 is its commitment to sustainable mining and technological innovation, especially at a site as advanced as Cannington. The company's investment in employee development, safety, and inclusion aligns closely with my own values and aspirations. While I may not yet meet all the experience criteria, I bring a strong foundation, a quick learning ability, and a genuine passion for control systems and industrial technology.

Thank you for considering my application. I would welcome the opportunity to discuss how my background in engineering and control systems could contribute to your team and operations at South32.

Sincerely,
Doa Roys