

ROBERT HOWARTH



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Dear Employer,

As an engineer student, I enjoy finding innovative solutions to complex problems. I am eager to expand my knowledge of software and implement it in the workplace as well as take on responsibilities within a business. I am a hard-working individual who always aims to achieve as high as possible.

My dissertation this year has been to land a drone on a moving target. This endeavour involved using visual feedback to estimate position using the computer vision library OpenCV. This involved writing scripts, applying mathematical models to real-life scenarios, and learning new libraries. I created several classes, one for the OpenCV element, another for the movement and another for a rotational matrix and called these classes in my final autonomous landing script. In the summer between my placement year and final year at university, I delved into full-stack web development which I found highly engaging and enjoyable. I learned various web technologies and frameworks, all the while improving my coding ability.

My professional experience at Tods Technology whilst on my placement year equipped me with a variety of skills for working in a dynamic business. I spent the majority of my time creating CAD models which were driven by functionality as opposed to looking attractive, however, I still had to present the drawings and renders in a way that was both appealing to the customers and communicated the key features. I learned a range of transferable skills at Tods such as: working to high standards (the top level of aerospace industry standards AS9100), version control and producing design reviews and other documents as part of a team.

In summary, I believe my strong ability to solve problems, a practised approach to learning, a keen eye for design and a hardworking mentality makes me a strong candidate for the position. Thank you for considering my application and I look forward to the possibility of joining the team.

Sincerely,

Robert Howarth