

PMB Defence Engineering - Stephen La Vista

PMB Defence is a supplier of high quality energy and specialised engineering solutions for submarine platforms. PMB Defence Engineering has capabilities in Mechanical and Electrical/Electronic design,



At PMB, Stephen was able to progress an idea to a possible tool for the Navy after completing the test and analysis of a number of designs.

Whilst not impacting on his study choices, Stephen expects that the work performed in systems engineering, documentation and preparing designs will assist with his honours year. After his internship, he has developed more of an interest in electrical and software engineering.



"PMB would not have been able to progress this project without the internship."

*John Keijko
Project Engineer*

John Keijko (L), supervised Stephen's work.

Smart Fabrication - Dane Plummer

Smart Fabrication's core business is in the planning, design, construction and installation of a wide range of metal fabrication products.



Dane enjoyed working on actual Smart Fabrication's projects.

As Dane is mechanically minded, he was pleased with a placement that was



This pipework as well as a stainless manifold were designed by Dane during his internship

Albins Performance Transmissions - Thomas Gell



Albins Performance Transmissions specialises in the design and manufacture of drivetrain components. Their capabilities include the ability to produce: individual gears, axles, drive flanges and ring and pinions right through to complete unit, sequential shift transmissions.

At Albins Performance, Tom worked on a steering and driveline product for the Thales Hawkei program. He familiarised himself with drawings, assemblies and processes for all components produced for the Hawkei.

Tom also reviewed the maturity level of the Production Part Approval Process (PPAP) of all parts manufactured for the program. He assisted in monitoring and assuring PPAP compliance and documented any instances of non-conformance.

In addition, Tom observed production processes on shop floor and identified potential opportunities for process improvement appropriate for low volume vehicle production.



Supervisor Ethan Stewart and Thomas Gell

very practically oriented rather than focused on research and theory.

Dane surpassed Smart Fabrication's expectations; he has excellent communication skills and liaised effectively with clients and suppliers. He assisted across the company and progressed to managing his own projects.

Smart Fabrication offered Dane a job but he had a placement with DST Group and further study to finish in 2018. Nevertheless, his supervisors plan to stay in contact with him and help him to establish a professional network. They expect that his career will progress quickly and that he will be managing complex projects in five to seven years.

Rockwell Collins Australia - Shane Reynolds



Rockwell Collins is a pioneer in the design, production and support of solutions for customers in the aerospace and defence areas. Their expertise spans across flight-deck avionics, cabin electronics, mission communications, information management and simulation and training.



*Shane and his supervisor Rob Riede (R).
Shane found that the supervision offered at Rockwell Collins greatly fostered his development technically, professionally and personally.*

The DEIP internship gave Shane the opportunity to join Rockwell Collins' team in a detailed design review with the Department of Defence. This attests to the esteem in which he was held by the host company as it is rare for an intern to be involved in a higher-level activity.

Shane was embraced as a colleague and they were delighted with his performance, well above that of a third year student.

Rockwell Collins' internship supervisor, Rob Riede, highlighted Shane's ability to independently research as he was studying each evening and on weekends to ensure he was familiar with the engineering topics in projects, jargon and the breadth of the company activities. Rob also commented that Shane was an outstanding match for the organisation, very capable, self-directed and with great communication and team skills.

"It is hard to remember that Shane is an intern and not an employee that has been with the company for a year."
Rockwell Collins' Chief Engineer

As a result of the internship, Shane will shape his thesis differently with more emphasis towards a defence application. He is considering a thesis including stereoscopic cameras on an embedded system to provide triangulation.

Shane has a final year of study in Darwin and Rockwell Collins will stay in contact with him in the hope of employing him in the not too distant future.