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Danny Nguyen

(i.e. Dang Khoa Nguyen)

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SUMMARY

I am a self-motivated and enthusiastic Mechatronic Engineer Graduate with 1 year of work experience at Supashock Advanced Technologies. Currently seeking a graduate role opportunity within the engineering industry that will allow me to learn and apply my academic learnings and complement theory with practice.

WORK EXPERIENCE

Supashock Advanced Technologies
Graduate Role ***November 2022 – Current***

- Designed Mechanical Solutions using NX Siemens for the Anti-Tank Guided Missile (ATGM). Produced engineering drawings for manufactured machine parts and wiring harnesses.
- Designed Tooling and Jigs for the assembly of the ATGM, decreasing production assembly cost by 9%
- Developed wiring harness solutions within the ATGM, utilising military-grade connectors, backshells, boots and wiring.
- Organised and managed Bills of Materials and Assembly Instructions, leading to 15% price reduction.
- Coordinated between design and production team to ensure end product meets client specifications and Australian Defense Force Standards.

PREVIOUS PROJECTS

Anti-Tank Guided Missile ***November 2022 – Current***
The Anti-Tank Guided Missile project is a collaboration between Supashock Advanced Technologies and Rheinmetall to produce a retractable turret-mounted launcher for the Spike LR2 Anti-Tank Guided Missile.

Integrating VR environment with a Stewart Platform ***March 2022 – November 2022***
This project involves the development of a Lunar Rover Simulation utilizing a Stewart Platform, Racing Simulator and VR Headset. Throughout the project, programming of a Unity Engine script to extract kinematic data, integration between all devices and manufacturing of safety equipment were completed.

Computational Fluid Dynamics on a Submarine ***March 2022 – June 2022***
This project studies the drag coefficient on different nose designs on the hull of Collin's class submarine using Computational Fluid Dynamics.

Finite Element Analysis on a Bird Strike ***March 2021 – June 2021***
This project investigates Finite Element Methods (FEA) in the analysis of bird strike impacts upon the Cessna 172 wing air foil.

Designing an autonomous weather station ***July 2020 – November 2020***
This project focuses on the design of an autonomous weather station in terms of a client's needs. Surviving the harsh environments of the arctic and providing accurate data on the wind speed/direction, temperature, snow depth and precipitation.

EDUCATION

The University of Adelaide **Graduating in August 2023**
Bachelor of Engineering (Honours) (Mechatronics) | GPA 4.74

Blackfriars Priory School
South Australian Certificate of Education | ATAR 89.96

- All Years – High / Highest Honours for yearly academic reports
- Strong presence in the sporting community through being member of the aquatic and badminton teams.

Skills

- Proficient in MATLAB/Simulink, Solidworks/Inventor/Siemens NX CAD, Ansys FEA, Ansys CFD, C/C++, Latex, Microsoft Word/Excel, Mac OSX, Windows.
- Familiar with HTML, CSS, Java, Python, Solidity, Festos, circuit design.
- Bilingual; English and Vietnamese