

Nathaniel De Ramos Paraiso

Mechanical Engineering (Honours) Student | Armstrong Creek, VIC

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PROFILE

Third-year Mechanical Engineering (Honours) student at Deakin University with hands-on vehicle experience from new-vehicle pre-delivery inspection, CAD skills in Autodesk Fusion and Rhinoceros 3D, and a portfolio of design and self-directed CAD projects, from a garage creeper to an electric ducted fan and an inline-four rotating assembly. Mechanical team member on the Deakin University Solar Team, with interests in automotive engineering and in hydrogen and renewable energy.

EDUCATION

Deakin University — Bachelor of Mechanical Engineering (Honours) 2025 – 2028 (expected)

Waurin Ponds, VIC

Relevant coursework: thermodynamics, stress and failure analysis, structural design, materials, engineering mechanics, CAD and engineering mathematics

ENGINEERING PROJECTS

Garage Creeper Design — Deakin University T2 2025

Design project – concepts to Fusion assembly model

- Generated three hand-sketched concepts with dimensioned views at 1:5 and 1:8 scale, covering materials, assembly methods and repairability.
- Developed the selected concept into a full assembly model in Autodesk Fusion, with outward-mounted castor wheels and brakes, a storage tray, three padded sections and a bolted, repairable assembly.

Footscray Pedestrian Overpass — SEJ201 Structural Design, Deakin University T2 2026

Four-person team design project

- Completed the pad footing analysis for the overpass as part of the team's structural design brief, which achieved an 85% average (High Distinction).

Personal CAD Projects — Autodesk Fusion Ongoing

Self-directed modelling, assembly and section-view work

- Electric ducted fan assembly with a cut-away section view showing how the motor, rotor hub and housing fit together.
- Inline-four piston, connecting rod and crankshaft assembly, plus a battery charger housing and multi-piece wheel models.

STUDENT TEAM

Deakin University Solar Team — Mechanical Team Member 2026 – Present

Waurin Ponds, VIC

- Attend mechanical design reviews for the team's solar vehicle, covering packaging, component integration and engineering trade-offs.

WORK EXPERIENCE

Blood Motor Group – Smiths of Geelong Dec 2025 – Aug 2026

Geelong, VIC

Pre-Delivery Technician / Vehicle Detailer — Mar 2026 – Aug 2026

- Performed pre-delivery inspections on new GWM, GMSV and Suzuki vehicles to manufacturer checklists, checking suspension, fluid leaks, vehicle functions and supplied equipment such as the jack and tool kit.
- Reported defects and damage to the workshop and coordinated with dealership staff so vehicles were ready for their scheduled customer handover.

Vehicle Detailer — Dec 2025 – Feb 2026: detailed new passenger vehicles, SUVs and utes to dealership presentation standards.

Tip Top — Merchandiser

Mar 2025 – Present

Geelong, VIC

- Manage stock rotation, replenishment and merchandising independently across stores from Newtown to Torquay, keeping product availability and stock records accurate.

Supercheap Auto — Team Member

Jul 2023 – Jul 2024

Queanbeyan East, NSW

- Advised customers on automotive parts, accessories and maintenance products, matching products to their vehicles.
- Fitted batteries and windscreen wiper blades, and managed stock, inventory and merchandising displays.

Earlier roles: Kitchen Crew Member / Delivery Driver, Kingsley's Chicken, Wanniassa ACT (2022); Crew Member, McDonald's, Canberra ACT (2021).

SKILLS

CAD & Design: Autodesk Fusion, Rhinoceros 3D (proficient); CATIA, Autodesk Revit (working knowledge); hand sketching and orthographic drawing

Analysis & Programming: ANSYS, C, C++ (coursework level); Microsoft Excel

Hands-on: Vehicle inspection and fault reporting, hand tools and mechanical assembly, battery and wiper fitment, own-car modifications; built own PC and PCs for friends

Documentation: Technical reports, Microsoft Word and PowerPoint, Adobe InDesign

LICENCES, LANGUAGES & INTERESTS

Licences: Full Victorian Driver's Licence; Construction Induction (White Card), MBA Group Training, 2022

Languages: English and Filipino/Tagalog (both fluent)

Interests: Hydrogen and renewable energy, automotive engineering and motorsport, sim racing, PC building, 3D modelling, bushwalking