MiLLiEPACKARD

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PERSONAL STATEMENT

I believe the best engineering solutions come from pairing creative thinking with analytical rigor alongside relentless, hands-on effort. As an energetic Engineering undergraduate, I thrive on building prototypes, figuring out complex systems and tackling technical challenges to find effective solutions. Whether solving a design problem or pushing through an eight-day endurance trek, I bring grit and determination to everything I do, eager to apply a practical perspective to automotive excellence.

EDUCATION

2025 – 2029 **University of Exeter, Devon** , B(Eng) Mechanical Engineering + Year in Industry (*First Year 2:1)*

2020 - 2025 **Churcher's College, Hampshire** A-Levels: Design & Technology (A*), EPQ Artefact (A*, 100%), Maths (B), Physics (B)
GCSEs: 10 GCSEs, Grades 9–7 (including Maths 9, Physics 8, English Language 7, English Lit 7)
Sixth Form Academic Scholarship, School Prefect & Vice House Captain

SKILLS

Tools **SolidWorks • Basic Python • Basic CATIA V5 • Excel • MS Office** • PowerPoint • **exeAI**: Ai and Machine Learning (March 2026) • **CSWA Dassault Systèms** (Jan 2026) • **ExCode:** Intro to Python (Nov 2025)

Certificates **Duke of Edinburgh Award** Bronze, Silver & Gold • **ABRSM** Singing and theory Grade 5 • **RYA** Sailing and Windsurfing **Full UK driving license**

ENGINEERING PROJECTS

First Year Group Project: Renewable tidal energy device and offshore platform in the Bristol Channel *(First-Class Honours)*
Selected and researched a Venturi tidal generator over 7 months, alongside a commercial plan for a subsea data centre. Led turbine blade design, optimising foil profiles and pitch angles to maximise efficiency. Used SolidWorks CAD in a multidisciplinary team to build a physical, laser-cut and 3D-printed prototype for an academic showcase.

EPQ Artefact - Van Interior Conversion Design *(A* - 100%)*
Independently designed a full van interior using SolidWorks CAD, creating a 3D-printed scale prototype to optimise long-term travel ergonomics and storage. Grounded the development in material constraints and primary and secondary research gathered through questionnaires and online seminars, concluding with a formal presentation.

A-Level Design & Technology/Product Design: NEA: Micro cooking *(A* - 95% coursework)*
Designed a bespoke, compact food preparation, storage and cooking unit that integrates seamlessly into the rear of a Mini One. Developed an original design brief and executed all NEA stages, including in-depth open-ended investigation, research, iterative development, full-scale prototyping and final evaluation.

EMPLOYMENT & EXPERIENCE

Rolls-Royce Motor Cars, PO18 *Independently sourced 3-Week Work Experience* (July 2026)
Completed a split placement across Liaison, Bespoke Engineering and Design. In Liaison, engaged with Goodwood and Munich teams, tracked production line solutions, located parts and completed CATIA V5 tutorials alongside completing the intern challenge solo. In Bespoke, evaluated testing, manufacturing standards and cross-functional communication. Finished official BMW Group training covering additive manufacturing, lean/agile methods and human-robot collaboration alongside a full site tour.

Element Studio, PO21 *Independently sourced 1-Week Work Experience (*October 2024)
Observed and contributed to real industrial design projects in a creative studio environment including brainstorming sketches and 3D printing.

Nodwood House Equine, Hill Farm Stables *Voluntary Equine & Animal Care* (June 2022 – 2024)
Supported yard managers with comprehensive animal husbandry, applying high physical reliability and attention to detail across feeding, grooming, tack maintenance and arena training, while observing veterinary care and equine physiotherapy.

Tesco, Copper & Ivy, Haslemere Youth Hub, The Waterfront *Customer Service & Events Support* (July 2022 – Present)
Delivered high-end waiting service, event catering, café barista duties and stock control, alongside cashier operations and card payments during peak seasonal periods.

Self-Employed Childcare Provider, Ages 4–14 (March 2022 – Present)
Managed independent client scheduling, school pick-ups, meal preparation, safety and household responsibilities for local families since age 14, balancing long-term commitments with academic studies.

HOBBIES & INTERESTS

Outdoor Activities: surfing, skiing, tennis, horse-riding, skateboarding, table tennis, hockey, swimming, paddle boarding, walking
Automotive: Goodwood Breakfast Club and Caffeine & Machine 'The Hut' Hampshire
Charity Challenges: Walked South Downs Way 100miles unsupported raising £3.5k, Annual BHF Dechox, Across The Divide 10miles.
Personal Enjoyment: converted vans, playing guitar/uke, surfing, skateboarding/tricks, skiing, live music and festivals, sketching, cooking and reading.