George Hill

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SUMMARY

A graduate from the University of Southampton with a masters in Mechanical Engineering. I have hands on experience at the cutting-edge of technology. Proven ability to work with multidisciplinary teams, solve complex problems, & deliver client-focused solutions in fast-paced environments. Seeking to apply my skills to contribute to an innovative & sustainable future.

EDUCATION

The University of Southampton
Mechanical Engineering - MEng 2:1; Machine Learning, Intelligent Robotics *Sep.2020-Jun.2025*

SKILLS

- **Code & Software** - Python, C++/Arduino, Solidworks, Ansys Mechanical
- **Practical Skills** - 3D Printing, Welding, Tapping, Milling, Drilling, Soldering, laser cutting
- **Soft Skills** - Teamwork, Problem solving, Time management, Communication, Organisation, Discipline

PROJECTS & EXPERIENCE

Masters Group Design Project University of Southampton
Team Leader *Sep.2024 - Present*

- Led my masters GDP. Designed, Built & tested a floating kinetic waterwheel ø1.5m.
- Project delivered a solar & diesel generator competitor, enabling power generation in rural locations.

Cambridge Consultants Cambridge, UK
Mechanical Engineering Intern *Jul.2023 - Jul.2024*

- Contributed to diverse, cutting-edge projects, enhancing my mechanical engineering expertise.
  - Worked on fluidic design for consumer products, driving rapid design-build-test cycles, creating prototypes to engage clients & generated patentable IP.
  - Collaborated on the development of a bespoke bioreactor, integrating disruptive bio-industry technology.
    - Worked closely with system engineers, applied scientists & biologists to ensure client requirements were met, involving procurement of specialist sensors, design reviews & FMEA sessions.
  - Responsible for the hardware design & testing for an Edge AI project.
    - Designed, tested & iterated on the heat management & hardware architecture of the system.
    - Developed thermal simulations using ANSYS & replicated harsh flight conditions in the lab.
    - Presented project outcomes in a company wide session with great feedback.
  - Optimized the design of a robot inspection arm with novel control architecture. Improved manufacturability, robustness, & vibration, enabling faster software development.
- Worked in varied team sizes, communicating with clients on both technical & commercial aspects. Demonstrated understanding of client needs & how organisations like CC add value through innovation.

Eurobot - A European robotics competition University of Southampton
Team Leader *Feb.2022 - May.2022*

- Led my Eurobot team of five, from strangers to runners up in the UK Eurobot final in 12 weeks.
- Developed my management & team working skills by having regular deadlines to hit with my team.

OTHER

- **Formula Student** - Refined my CFD skills, grasped new software workflows quickly. *Oct.2020 - Jan.2022*
- **3rd Year Individual Project - Newcomen Engine** - A small scale steam engine made with modern manufacturing, to assess the technology's ability to capture industrial waste heat.
- **Work Experience** - Ford Motor Company & Network Rail *4 Weeks*

HOBBIES

- **Southampton University Athletics - Tour sec 21/22 - Kit sec 22/23 - Treasurer 24/25** - Heavily involved in the University athletics club during my time. Have developed planning, management & decision making skills. Activities included organising a trip abroad for 20+ people, curating competition & casual kit for club members, communicating with suppliers, overseeing club finances & putting together grant applications.