



GEORGE LEGGET

MECHANICAL DESIGN & VEHICLE ENGINEER

WORK EXPERIENCE

BYTON (Santa Clara, CA, USA) (Jun 2019 – Present)

Vehicle Package Engineer, Vehicle Architecture & Integration

Lead vehicle architecture and integration of all mechanical components for an all new Level 3 autonomous fully electric SUV, the BYTON M-BYTE.

Cross functional design and integration leadership for Vehicle Integration across EU, NA & CN design, engineering & manufacturing teams.

Advanced vehicle concept design & analysis including ergonomics studies & user testing. Package and component design & analysis (CATIA) across all vehicle engineering disciplines.

DMU & PLM leadership and process development and implementation for data management in a startup environment.

Program Management skills including reporting and presentation of business case and engineering feasibility studies with strong technical analysis delivered with excellent communication skills.

BECA (Australia) (Feb 2017 – Jun 2019)

Mechanical Engineer/Assistant Project Manager

Design and project management of water, wastewater, and industrial engineering projects. Excellent detailed mechanical engineering design and communication skills developed with stakeholders and suppliers to drive project execution. Technical and non-technical writing skills, business case development, data analysis, and presentation skills developed. Leadership of mechanical design work packages and office culture initiatives.

Fletcher Systems (NZ) (Feb 2016 – Nov 2016 during University)

Researcher – Honors research and development project – Design, Project Management & prototype manufacture of a carbon-fiber composite kinetic sculpture. Strong design, analysis & practical testing skills developed alongside excellent client service & project management skills.

Oracle Team USA (NZ) (Nov 2014 – Feb 2016 during University)

Undergraduate Mechanical Engineer

Completed mechanical design and testing tasks for precision manufacture of carbon-fiber composite parts for the 2017 Oracle Team USA America's Cup Class Yacht. Responsible for the design, installation and project management of a purpose-built room to house a 5-axis CNC cutting machine for carbon-composite materials. Significant hardware design & testing experience in a high-pressure environment using cutting-edge composite manufacturing techniques to solve complex design & manufacturing challenges.

Rebel Racer Coffee Company (Australia) (July 2018 – Present)

Co-Founder

Sustainable enterprise selling reusable coffee cups. Implemented web design, social media and online marketing campaigns, graphic design, supplier liaison, company administration, and sales. Strong marketing and interpersonal skills developed.

Mike Horn PANGAEA Young Explorers Program (Brazil/Switzerland) (2012)

Volunteer – A group of young leaders taking action for climate change and poverty through expeditions focused on environmental protection and awareness alongside youth education and development. Demonstrated sense of community, environmental protection and ability to thrive in challenging environments outside of the comfort zone.

PROFILE

Mechanical engineer with 4 years professional experience. Enthusiastic innovator, excellent communicator and problem solver in collaborative team environments.

Passionate about electric and autonomous vehicles and the future of transport. Confident, creative, curious and committed to continual learning and improvement.

Interested in Mechanical Engineering Design roles in the fields of mobility and product development.

CONTACT

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CITIZENSHIPS

US
NZ

LANGUAGES

English
French

HOBBIES

Electric Mobility
Environmental Protection
Coffee – Qualified Barista
Skiing – Qualified Ski Instructor
Sailing – Qualifying US Sailing Instructor
Music

EDUCATION

Bachelor of Mechanical Engineering, Honors

University of Canterbury (NZ) (February 2013 – November 2016)

Product design & analysis, mechanical system design, engineering management, composite materials, aerodynamics & ground vehicle dynamics, thermodynamics & heat transfer, fluid mechanics, dynamics, electro-technology, feasibility studies & business plan development.

Singularity University (NZ) (December 2016) – NZ Summit Alumni – Exponential Technology

Trinity College London (NZ) (2011) – Grade 8 Public Speaking & Communication

Duke of Edinburgh (NZ) (2011) – Silver Award – Sport, Service, Music, Academia

PROFESSIONAL MEMBERSHIPS & AWARDS

American Society of Mechanical Engineers – Member

First in Class – Feasibility Study – Engineering Management (University of Canterbury)

Concept Design Prize – Mechanical Engineering Design (University of Canterbury)

SKILLS

Excellent team leadership, communication & cross functional design integration skills

3D modeling, concept & detailed design & analysis

Mechanical Engineering & Product Development R&D – Vehicle Design
Design for Manufacture – GD&T and statistical tolerancing methods, 2D drawings

Engineering & Project Management – Business Case & Project Plan Development, Risk Management, AGILE methods

Cross functional design integration and problem solving – Root Cause Analysis & Systems thinking methodology

TOOLS

CATIA
SOLIDWORKS
Autodesk Fusion
AutoCAD
ANSYS
MATLAB
JIRA/Confluence
Office Suite/Google Suite