Benjamin Evans

Curriculum Vitae

Linkedin: https://www.linkedin.com/in/benevans931
ePortfolio: https://www.benjaminevans.co.uk

PERSONAL PROFILE

Defence aerospace graduate engineer at Rolls-Royce working towards gaining chartered status. Achieved first-class honours in electronic engineering and Head of School Excellence scholarship from The University of Leeds. Experienced in using Fusion 360 and operating 3D printers. Worked with the quality and production support team at ZF, gaining experience in the automotive industry.

EDUCATION

University of Leeds

MEng Electronic Engineering: First class

Solihull School - A levels

Maths: A* Physics: A* Chemistry: A

Arden Academy - GCSE

9 GCSEs: A*- C Maths: A* English: B

INDUSTRIAL WORK EXPERIENCE

Rolls-Royce, Bristol — Internship

June 2021 - August 2021

Working with the Future Programmes New Concepts Team:

- Develop concepts for future Rolls-Royce products in the space domain.
- Used industry standard cost estimation tools, systems engineering to define requirements and represented the company at STEM events.

ZF Friedrichshafen, Shirley — Work Experience

3 Weeks July 2019

Working with the Quality and Production Support team:

- Designed a torque angle signal simulator box to identify problems with ECUs in power steering motors using an Infineon development board.
- Assisted with harsh environmental testing on motor ECUs and used root cause analysis to diagnose faults.

M-TEC Engineering Projects, Coventry — Work Experience

1 Week August 2018

- Developed an understanding of additive manufacturing and CATIA v5.

TECHNICAL SKILLS

Proficient in C/C++

Java

Verilog

Quartus and Modelsim

Autodesk EAGLE

MATLAB

Fusion 360 and 3D Printing

Level 3 Excel

ACHIEVEMENTS / QUALIFICATIONS

Duke of Edinburgh Gold

Enterprise Scholarship (Leeds University)

Head of School Excellence Scholarship (Leeds University)

Business Plan Competition Winner (Leeds University)

Industrial Cadet Gold Award

Cooper Scholarship For Science (Solihull School)

Prize For Academic Excellence (Solihull School)

ASA Level 1 Swimming Assistant

IQL Level 3 First Aid at Work

PROJECTS

Personal: Car Restoration – Last summer, I undertook a restoration project of a 1976 Datsun 280z. I learned how to strip the car, rebuild the engine completely and put it all back together whilst filming the whole process. I prepared detailed parts listings/costings and worked to earn funds to pay for the project. I networked with experts in the field and formed relationships with other enthusiasts to source parts. I designed and 3D printed parts that can no longer be purchased and then shared them with others in the restoration community.

University: PIBAIR – For my final year, I assisted a postdoctoral research project to develop the pipe in bore articulated inspection robot (PIBAIR) platform, which was produced as part of the robotics and AI in nuclear (RAIN) initiative. The inspection robot can navigate a 2” pipe network and map radiation for the decommissioning of Sellafield nuclear power station. My responsibilities involved miniaturising the control electronics, integrating a radiation sensor, developing a mapping system and programming a control graphical user interface.

University: RadBot – For my third-year group project, my team and I designed, manufactured and delivered an autonomous radioactive contamination detection system for use in a university nuclear laboratory. My responsibilities involved selecting the hardware and programming the robot using the ROS framework to allow accurate movement in a lab environment.

Business: DJ Tablet – Since being awarded the Enterprise scholarship at the University of Leeds, I have received funding to develop my DJ tablet into a commercial product. Producing a Linux based tablet has required technical skills in custom PCB design, 3D printing and manufacturing. Along with non-technical skills in marketing, branding, crowdfunding, networking and sales. This product led me to become a winner of the University of Leeds Business Plan Competition.

OTHER WORK EXPERIENCE

University of Leeds, Leeds — Lab Demonstrator

October 2021 - April 2022

- Assisting with teaching the 2nd-year embedded systems module to help students understand microcontrollers, C++ and electronic circuit design.

Plume Tyre Service, Knowle — Work Experience

2 Weeks August 2019

- Learnt and became competent in performing a full service on a car.

Bryan’s Data Programming, Monkspath — Work Experience

1 Week March 2015

- Enhanced expertise in fixing any software issues with computers.
- Built new computers for clients tailored to their specifications.

HOBBIES / INTEREST

MEIT

Lab Demonstrator

Keen Rugby Player

Competitive Powerlifter

Enjoy Water Polo and Skiing

REFERENCES

Academic Reference:

Roger Berry

Project Supervisor

University of Leeds

Employer Reference:

Matthew Wills

Systems Design and Integration Engineer

Rolls-Royce