



Ruby Main

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Summary (You can use headings that relate to the job you are applying for each time, but remember to always use bullet points)

Project Management:

- Selected for the role of project manager, overseeing tasks, and allocating workload within groups, in the majority of projects
- Led the development of a range of project management techniques and skills whilst on summer placement at Rolls Royce

Initiative:

- Taken the initiative to put forward ideas and motivate the group projects including the micro wind turbine design project

IT and Technical Skills:

- Design experience on a variety of personal and academic projects using CATIA V5 and Google SketchUp including the Truss structure project

Teamwork & Communication:

- Enjoy working as part of a team and have experience of diverse and effective communication styles both in the workplace and at University

Education

Sept 2016 – Jun 2019 BEng Mechanical Engineering (Current 2:1) Brunel University London

Key modules

(Don't try and include all your modules for graduate jobs, only the ones relevant for the job you're applying for)

Add modules title with grade
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June 2015 A-levels Computer Science (B), Maths (C) Physics (D) London College

June 2013 10 GCSEs including Maths (B), Double Science (B/B), Design Technology (B), English (A) Farnham College

Relevant Employment History

Jun 2017 – Sept 2017 Engineering Summer Intern Rolls Royce plc

- Worked within Capability Acquisition team investigating waste reduction opportunities on machining manufacturing process of main line shaft with the aim to increase capacity and drive cost reduction of parts.
- Worked effectively with shop floor team to understand existing manufacturing strategy and utilised Six Sigma value stream mapping tools to identify alternative manufacturing routes to reduce cost and manufacturing time.
- Further developed communication skills by holding an improvement workshop to consult with manufacturing engineers, production leaders and operators to present and discuss potential solutions

Technical Project Work

(Include the work project from University which is most relevant to the job you're applying for)

Glider Project: (Project Manager)

- The aim was to design, build and test a glider and a launcher that flies a predefined distance.
- I split the workload accordingly and ensured the project was completed on time, within budget and to specification.
- I calculated the optimum design constraints such as the airfoil design to achieve the desired lift-to-drag ratio.
- Having evaluated all the designs, the group of six shortlisted my design for the glider and the launcher.
- Due to its innovative design and quality, our launcher and glider is now being displayed by the university.

Truss Structure Project: (Project Manager)

- The aim was to design and build using balsa wood a model fuselage truss structure that would carry a minimum load of 30N and also to calculate where and under what load the structure will fail at.
- Allocated the workload accordingly and ensured the project was completed on time and to specification.
- Designed the structure that was selected by the team of six as the final design, and finished third out of 16 groups.

Design of a Micro-Wind Turbine

- A year 3 group project, which focused on designing a small roof-mounted wind turbine for UK home application. As a group, we decided to go for the horizontal axis wind turbine more adequate for rural areas.
- Taught myself how to use SolidWorks, a design software that I learnt in less than two weeks.
- Actively participated in motivating the team and directing the project in a very limited time (nine weeks).
- Developed communication means through quizzes when meeting with the team was not possible.
- Learnt how to balance product cost with efficiency and quality.

Development of UT Inspection for Brazed Components

- Autonomous development of immersion technique inspections to qualify welds and brazing for new components where no instruction was available (selection of probes, set-up of ultrasound software, programming of NC-controlled scanner, data analysis).
- Inspection of lab samples to monitor influences of thermo shock tests.
- Determination of a material integrity to preserve the usefulness of the component involving cost reduction plans, product reliability improvement and give information before repair operations.
- Introduction to other NDT techniques (PT, MT, ET, RT, Phased Array and Visual Inspection) to get an overview over the whole field of non-destructive testing.

Other Work Experience (which can include volunteering, working with parents, part-time work, community work etc.)

Sept 2016 – Aug 2017

Motorcycle Courier

ABC Couriers

- Delivered packages across London and south east region - worked quickly and effectively.
- Worked to targets and under pressure of time and difficult working conditions.
- Logged deliveries on a dedicated computer database using hand-held technologies.

July 2015 – Aug 2016

Assistant Manager

Finchley Motorcycles

- Took a gap year after A-levels and progressed from General Assistant to Assistant Manager.
- Responsible for staff rotas, recruitment and training, developed team working and communication skills.
- Regular liaison with suppliers, placing and sourcing orders, developed my client management and commercial awareness skills.
- Developed marketing strategies and maintenance of the company Facebook page and website.

Interests

University Societies

- Enjoy being an active member of the student society for Engineering EQ8. I attend events and social activities which increase my understanding of the subject and widen my social network.

Technology

- Recreational photography including digital manipulation of images for my blog - www.bloggingbrits.co.uk
- Keen computer games enthusiast and have ambitions to develop the technical skills to design my own games. I am a member of online gaming groups and enjoy the mutual problem solving and development of successful strategies especially in team-based games.

Sports

- Relax by playing cricket in a county league side. Also contribute to annual fund raising events and coach the junior side, helping me to develop skills such as team work and problem solving.