

# Alexandre Cláudio Jorge Bento

*“Well-rounded aerospace engineer with proven skills in the aircraft and spacecraft industries. Open to new and challenging opportunities to develop professionally.”*

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## Experience

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### **Satellogic S.A., Buenos Aires, Argentina [June '14 to Present]**

*Lead Thermal Engineer (spacecraft engineering)*

- Responsible for spacecraft thermal modelling, analysis and design
- Developed automated data processes to analyse and post-process thermal scenarios
- Designed thermal control system comprising of heaters, sensors, radiators, insulators, heat-pipes, and multi-layer insulation blankets
- Carried out ionising radiation simulations for spacecraft missions
- Supported mechanical decision making, material research, and hardware procurement
- Involved with spacecraft assembly, integration, and structural qualification

### **Rapid Product Development Ltd., London, England [April '14 to May '14]**

*Consulting Mechanical and Product Design Engineer (product design and development)*

- Developed products and engineered design solutions based on customer input
- Used SolidWorks software to create detailed design models

### **General Electric Aircraft Engine Services Ltd., Cardiff, Wales [July '10 to July '11]**

*Full-time Undergraduate Placement Engineer (repair, propulsion and production engineering)*

- Involved with component repair techniques and special workshop processes including machining, welding and heat treatment
- Accountable for repair development including regulatory data and customer processes
- Worked within a propulsion engineering team with focus on engine systems, work scopes, module/engine build and test procedures
- Additional functions involved defect investigation and hardware strip reviews
- Awarded three GE Wales 'Great People' Awards in recognition of the level of commitment and outstanding contribution to the engineering team

## Education

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### **University of Surrey, United Kingdom [September '08 to June '13]**

*M.Eng. Aerospace Engineering*

- Final average of 74,1% (First-Class Honours)
- Subjects such as Computational Fluid Dynamics, Control Systems Engineering, Materials for Engineering Applications and Advanced Stress Analysis
- Design projects involving aerofoils, unmanned air vehicles and satellite optimisation

### **Chinese University of Hong Kong, Hong Kong [June '12 to August '12]**

*Engineering and Technology Management (International Summer School)*

- Final average of 82,5%

**Instituto Superior Técnico, Portugal [September '05 to July '08]**

*Degree-level studies in Aerospace Engineering*

- Subjects such as Geometric Modelling, Programming and Computational Mathematics

**Escola Secundária Dr Solano de Abreu, Portugal [September '02 to July '05]**

*Secondary School (A-levels equivalent)*

- Final average of 80%
- Subjects such as Physics, Mathematics and Electronics

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**Certifications**

**University of Cambridge Level 1 Certificate in English**

- First Certificate in English (Council of Europe Level B2)

**FLAG Video and Multimedia Specialised Course**

- Professional specialisation in Adobe packages such as Photoshop, Premiere Pro, After Effects, Audition and Encore

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**Technical Skills**

- **Office:** Word, Excel, and PowerPoint (notions of Visual Basic for Applications)
- **Computed Aided Design:** CATIA, SolidWorks, and SolidEdge
- **Finite Element Analysis:** COMSOL, Abaqus, and Ansys
- **Computational Fluid Dynamics:** Fluent
- **Programming:** MATLAB, HTML, CSS, and Javascript
- **Spacecraft:** Satellite Tool Kit, and OMERE
- **Quick to learn new technologies**

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**Key Skills**

- **Problem-solving:** capable of applying knowledge and skills to real-world situations
- **Teamwork:** integrates easily in teams; has strong **people skills** as a result of his **multicultural experience**; comfortable working with all types of people at any level
- **Numerical and analytical skills** as demonstrated by his academic results
- **Initiative and Adaptability:** moved overseas in pursuit of a distinguished higher education and improved career opportunities

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**Languages**

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|------------------------------|---------------------------------|
| • <b>English</b> (fluent)    | • <b>Spanish</b> (intermediate) |
| • <b>Portuguese</b> (fluent) | • <b>French</b> (basic)         |

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**Memberships**

- Member of the **Institution of Mechanical Engineers** (IMechE) and of the **Royal Aeronautical Society** (RAeS)

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**References**

- Provided upon request