

# Tiago Cardoso

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Technical and creative designer, specialised in transforming initial ideas into physical manufacturable products.

Very experienced in using various 3D and 2D computer programs, including SolidWorks, Autocad, Alias, Vectorworks, Fusion 360, Keyshot and more.

Aiming to create carefully considered high design quality solutions.

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## Work History



### **Technical Designer – Aldworth James & Bond. 2018–2020 (1 year and 8 months)**

Aldworth James & Bond is an award-winning and highly experienced creative fabrication company offering specialist manufacturing for custom builds and installations.

- Key role in implementing SolidWorks and SWOOD in the company, resulting in improved design and fabrication speed and efficiency
- Initiated and developed (through to implementation) the technical design of a family of standard products for the most important client, a multi-billion dollar Coworking and Office Space company.
- Developed CAD templates and libraries, focusing on improving workflow and on creating re-usable parametric 3D models
- Produced technical drawings and visualisations for manufacturing and clients, while working closely with the in-house projects, new-work and production teams, as well as with clients to discuss design details
- Contributed to the production of various types of bespoke joinery designs for reputed clients linked to creative industries, by interpreting and converting initial ideas into functioning manufacturable products.



### **Industrial Designer – Cyclehoop. 2015–2018 (3 years and 1 month)**

Cyclehoop is an award-winning company based in the UK, specialised in designing and manufacturing innovative indoor and outdoor parking solutions and other products for bicycle users.

- Developed staple bicycle infrastructure and street furniture products for the company, from concept to manufacture, including the Cyclehoop Bike Port, the Modular Parklet and the Planter rack
- Reviewed and improved the existing product range in response to market feedback, new manufacture methods, materials and technologies
- Developed bespoke and experimental concepts and products for key clients such as Transport for London
- Initialised, developed and maintained a library of CAD blocks of Cyclehoop products, to be used by Architects and clients at the planning stage.
- Used 3D and 2D software (AutoCAD/Adobe CC/Alias/Solidworks/KeyShot) to produce 3D models, client drawings, concept renders, assembly instructions, and detailed manufacturing drawings
- Liaised with suppliers and manufacturers to discuss quotations, materials, production techniques and feasibility of production



### **Industrial Design Intern – Mitsubishi Fuso Truck Europe (Tramagal). 2013 (2 months)**

Mitsubishi Fuso Truck Europe is a state-of-the-art production & assembly plant of one of the world's most advanced and largest groups of truck manufacturers.

- Learned about all the stages of the state of the art production & assembly line, while working closely with the management teams of production, operations and logistics.
- Focused on design research to help understand and solve production problems.
- Developed an adaptable, collapsible and reusable transport rack for shipping axle housings of various sizes for saving money and reducing waste

## Awards



### Healthy Streets Award, Best Innovation. Modular Parklet System. 2017

· Product designed at Cyclehoop for H&F council. The award "recognises and rewards excellence in the planning and delivery of Healthy Street improvements in towns and cities in Great Britain & Ireland." - Landor 2017



### Alex Moulton Award by IED. 2017

· Attributed to Cyclehoop Ltd. Presented for product innovation. Past award recipients have included Jonathan Ive and Dyson Design Team.



reddot design award  
winner 2014

### Red Dot Award, Design concept. Pangea Excavator. 2014

· "[...] today's largest and most prestigious international award for design concepts at a professional level." - Red Dot 2014

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## Software and Training

### Software

· Solidworks, Adobe Illustrator, VectorWorks, Fusion 360, Keyshot, Adobe Photoshop, Autodesk Alias, AutoCad, Solidworks Visualize, After Effects, Prezi, Affinity Photo, Affinity Designer, 3DS Max (basic), InDesign (basic), Teamwork.com, iThoughtsX, MS Office, Rhino (basic)



### SolidWorks Certified Training. Provider: Solid Solutions. 2015-2019

· Essentials, Drawings, Assembly Modeling, Advanced Part Modeling, Sheet Metal, Weldments, Swood Design, Swood CAM.



### Additive Manufacturing for Innovative Design and Production. Provider: MIT xPro. 2020

· 12 weeks course. Ongoing

### Driving licenses:

· Car, motorcycle and local skipper

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## Education



### Master's degree of Science in Transport Design. Coventry University. 2013-2014

Ranked 14th best Design School in the category "Universities - Americas & Europe" by the Red Dot Design Ranking 2014.

· Passed with Distinction.

· Select Design Projects: How to improve the experience of use of bicycle in Lisbon, Stair-climbing Wheelchair concept for Venice, Autonomous Car Packaging concept, Continuous and Linear Excavator concept with high fuel efficiency.



### Bachelor's degree in Industrial Design. FBAUL University of Lisbon. 2009-2012

· Select Design Projects: Measuring Tool of water consumption, Polypropylene lamp, Futurist home computer enclosure.

### Course of Visual Arts. High School Diploma. Colégio S. João de Brito. 2006-2009

## Languages

- Portuguese: Native proficiency
  - English: Full professional proficiency (studied and worked in the UK)
  - Spanish: Limited working proficiency
  - French: Elementary proficiency
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## Additional Skills and Interests

- Industrial/Transport/Joinery Design · 2D and 3D CAD · Parametric modeling · Design for Manufacture
- Modelmaking/Prototyping · Design Research · Creative process · Technical drawing · Urban design
- Bicycle parking design · Graphic communication · Design for sustainability · Manufacturing processes
- Sketching · Photography · Project management · Surface modeling · Photorealistic rendering
- 2D animation (basic) · Vector graphics editing · Raster graphics editing · 3d animation (basic)
- CAD structural behaviour simulation (basic) · Mind mapping · Moodboarding · Storyboarding
- Car packaging fundamentals · Human-centered design