



## Job Description

Job Title:	Junior Mechanical Engineer
Location:	Bristol, UK
Reporting to:	Head of Hardware
Contract:	5 days a week (full-time)
Salary:	20-25k Depending on experience

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### The Company

Smartbox creates technology that gives a voice to people that don't have speech. Our products include a combination of specialist hardware, software and content and are used by people with disabilities across the world.

We are one of the leading companies in the field and pride ourselves on our innovative products and high levels of customer service. Everything we do is driven by a passion to improve the lives of people that use our technology.

At Smartbox we believe everyone has the right to a voice. This is what the company was founded upon nearly 20 years ago and remains true today. Our users represent a diverse community of individuals and we want to support them by promoting an inclusive culture within our team.

The Smartbox Head Office is in Malvern, Worcestershire. We have a second major office in Bristol and a smaller one in Pennsylvania, US

### The Job

Smartbox require a Junior Mechanical Engineer with expert CAD skills to work within the Hardware team. You will have electro-mechanical engineering experience in every stage of development: ODM selection, PRD development, EVT/DVT/PVT, and deployment into production.

Duties will include:

- In collaboration with a cross-functioning team and our ODM partners you will deliver our range of medical grade tablet computers and accessories.
- Take ownership of all CAD, and all mechanical / electro-mechanical components.
- Take a hands-on approach, as well leveraging external engineering and manufacturing companies to deliver user-centred product solutions.
- Demonstrate world class mechanical engineering capability.
- Engineering for electro-mechanical – specifically PCB's, cables, connectors.
- Engineering for drop, shock, vibration, accelerated life-test.
- Engineering for injection moulding, casting, machining, fabrication.
- Creating and managing BOMs.
- Creating and managing Engineering Drawings.
- Working collaboratively with designers to realise concepts into detailed design.
- Functionality, reliability, safety testing.
- Develop relationships with key technology vendors and partners.

- Participate in supplier/ODM selection.
- Design system architecture in collaboration with partners.
- Build and execute robust test plans, leveraging external resources.
- EMC test and debug in collab with hardware engineer.
- Application of international standards to ensure safety and performance.
- Work with suppliers to establish world-class manufacturing and assembly process.
- Engineering for EMC.

*The successful applicant will also be asked to perform other duties on an ad-hoc basis and will need a proactive attitude to this.*

#### Essential skills/attributes

- Proven experience in the full life cycle of product development. This will include concept through to production, and maintenance aftermarket.
- Degree or equivalent in Mechanical Engineering or similar.
- World class mechanical engineering capability.
- Excellent interpersonal skills and a passion for collaborative projects.
- Comfortable working independently and as part of a team.
- 2+ years' experience in product development.
- Punctual.
- Bringing passion and a smile into what you do.
- Creative entrepreneurial attitude.
- Expert in SolidWorks CAD modelling.
- Hands-on Mechanical Engineering.
- Meticulous organisation and proficiency in robust engineering process.
- Chassis/Enclosure engineering.
- Component engineering and selection.
- Willingness to travel both domestically and internationally.
- Execute supplier and process qualifications, capability studies, DOE's and PFMEA's.
- Own 3D CAD of all components and drive mechanical engineering.
- Specify, evaluate, define, and select key components.
- Prototype new hardware for proof of concept.
- Audio system design.
- Medical electrical equipment.
- BS8888: Technical product documentation and specification (Or similar).
- Project management.
- NPI.
- Collaboration with firmware, software teams – C#, Python.

#### Useful skills/attributes

- A knowledge of Assistive Technology

#### Rewards and benefits

- Smartbox offers comprehensive benefits including Company Pension, Group Life Assurance and Income Protection together with Private Medical Insurance
- 25 days holiday plus public holidays
- Laptop provided
- Flexible working
- Cyclescheme

- We are passionate about our people and offer many social events including a family weekend away, social outings and a Christmas party each year

We welcome applications from all communities and those from diverse backgrounds and groups.