

## About

Circuitree is a forward thinking electronics design and product development company based in the North East of England.

With development of innovative timely solutions, Circuitree helps its clients to create world class products and to remain competitive in rapidly evolving marketplaces.

Circuitree works with industrial designers, PCB manufacturers and product designers to provide a whole product design and manufacture service to its clients.

## Process

From Concept through to Manufacture, Circuitree's five stage methodology supports projects of all shapes and sizes.

Stage 1: Design Brief.

Circuitree meets with you to discuss and understand your requirements. An assessment of the feasibility of the project, and perhaps some basic research, leads to a presentation of outline costs and timescales.

Stage 2: Design Concepts.

Based upon the design brief, Circuitree prepares conceptual designs and detailed specifications identifying key functional elements and components. Project plans are developed including design reviews and milestones. From the plan a fixed cost is provided for the remainder of the project.

Stage 3: Engineering Design.

The most appropriate mix of technologies are crafted into a circuit design and software is developed to bring your product to life. There are many factors to be considered:

- Functionality
- Production cost and methodologies
- Regulatory and standards compliance
- Production volumes and component lead times
- Mechanical design and aesthetics
- Usability and robustness
- Design for manufacture and design for test

Stage 4: Prototype production and Testing.

Prototypes are manufactured using the latest techniques to ensure manufacturability. Where appropriate rapid prototyping and soft tooling are used to provide complete prototypes representative of the final product. This allows for meaningful functional testing and user testing. Results of all tests are fed back into the design process to give a production ready solution you can be confident of.

Stage 5: Full Production.

Circuitree works its with manufacturing partners to provide your finished product on time, on budget and in the volumes you need for your business. Feedback into the design provides for ongoing cost reduction and manufacturing improvement. The process begins again to develop your next generation of products.

## Services

- New Product Introduction - developing an idea or concept into a commercially viable, marketable and manufacturable product.
- Product Enhancement – adding features to an existing product, or replacement of existing features with more up-to-date technology.
- Re-engineering – engineering of new items based upon an existing product line.
- Contract Research – providing information including experimental data, conclusions and recommendations.

## Contact Details

Address:  
Circuitree Ltd  
Unit 15,  
Consett Innovation Centre,  
Genesis Way,  
Consett,  
County Durham  
DH8 5XP

Telephone Number: 01207 585824

Email address: [info@cctree.co.uk](mailto:info@cctree.co.uk)

Website: [www.cctree.co.uk](http://www.cctree.co.uk)