



ELECTRICAL CAD DESIGN ENGINEER

Summary

We are looking for a self-motivated Electrical CAD Design Engineer to join our engineering team to work within our electrical team to deliver harness routings and CAD designs in SolidWorks, as well as producing harness drawings that can be used by our supplier base.

[The Little Car Company](#)

Compensation: Depending on experience + share options + bonus scheme

Location: The Little Car Company Headquarters, Bicester Heritage, Oxfordshire

Holiday: 25 days per year, option to take 1 month off unpaid per year after 1 year service

Share options scheme: After 6 months with us - we want everyone to feel 'ownership' of the company

Start date: Immediate

Reports to: Head of Electrical Engineering

C-19 friendly process: We'll likely do the majority of initial interviews by video call, but will look to meet candidates in person (as per Govt. guidelines and where safe and suitable to do so) if possible.

A bit about us:

As it says in the name, we make little cars. [But they're a little bit special.](#)

The Little Car Company makes officially-branded drive-able little cars for luxury high-end motor manufacturers. We're already making cars for Bugatti and Aston Martin Lagonda, and there are more already in the prototype build phases.

Beautifully engineered vehicles don't just appear at our client's front doors - they are a result of months and sometimes years of meticulous design, dedicated craftsmanship, uncompromising testing and a personal customer experience second to none.

That doesn't happen without an exceptionally talented team fuelled by a determination to create truly remarkable vehicles, whilst having a ton of fun along the way. We work with the best car manufacturers in the business, so are only looking to recruit amazing talent to our small but highly functioning team.

We are building something special, an environment where everyone looks forward to their Monday mornings (our CEO Ben literally bounds out of bed each morning) and everyone in the company knows the difference they are making and can see how much value they are adding every day.

It helps that our products are [pretty awesome too.](#)

The role:

As we look to grow exponentially in the next few years, we are looking to recruit an individual who is capable of supporting the electrical side of our engineering team, predominantly on the creation of harness routings and drawings in SolidWorks.

The role will include proactively working with the mechanical design team and senior electrical engineers to deliver 3D routed harnesses capable of fulfilling all vehicle functions into our prototype vehicles, and then to refine these through our pre-production builds and testing into production ready solutions.

At all stages you will be expected to think critically about value engineering and simplicity of design to minimise both cost and weight wherever possible. You will need to have a broad knowledge of electrical components and systems and actively seek information where it is not readily available (connector sizes etc).

As well as harness designs, we will be looking for the individual to assist in the electrical integration of components/switches into the vehicle and on certain areas of mechanical design associated with this.

How we see the Electrical CAD Design Engineer Role:

- Creation and ownership of all harness designs in SolidWorks.
- Creation of harness drawings with all relevant information for manufacture or prototype.
- Support electrical integration of components into the vehicle from a mechanical design perspective, such as switches, modules etc.
- Liaise with suppliers on designs to ensure ease of production and value for money for all harnesses.
- Critically appraise parts delivered to a prototype level and define improvements where necessary to improve production parts.
- You will work with all levels of our business from CEO to technicians as we operate a 'flat structure' so you will need to communicate in various formats and forums with a wide range of people.

Skills:

- Several years' experience of working in a smaller OEM environment or motorsport with a fast-paced work schedule and rapidly changing priorities.
- Experience of working in an electrical engineering environment with knowledge of electrical components, harnesses and systems.
- Broad knowledge of vehicle systems and architectures, heritage/historic vehicle engineering knowledge is also desirable but not essential.
- Broad knowledge of harness supplier manufacturing methods as well as low volume manufacturing methods such as 3D printing.
- Value-engineering and cost down activities to pro-actively reduce BoM costs.
- BoM experience to understand, maintain and implement a robust and accurate BoM.
- CAD and drawing creation experience, preferably on SolidWorks.
- Knowledge of electric vehicles is desirable, but not essential.
- Practical skills of harness building are an advantage, but not essential.

Details / perks:

- Full time in at The Little Car Company's brand new HQ at Bicester Heritage, the UK's first automotive campus. It is a stunning place for any car enthusiast to be based.
- Flexible working from home – we are a family friendly employer
- Competitive salary and 25 days holiday a year
- Opportunity for equity ownership / stock options and compensation will increase as we grow – ultimately you are in control of your destiny and the rewards will be there for the right people

- Our company car is a Caterham – as an employee you can book a weekend to use it as you like (within reason!)

Keen to apply?

We want to hear from you! Please send us a covering note (maximum 400 words) with why you are the right candidate for this role. Please don't just regurgitate your CV – we are looking for a flavour of you and what you can bring The Little Car Company. Think of this as your own personal highlights reel. Please include your salary expectations within this covering note.

Please note that if you have not heard from us one week after the closing date of the advert then on this occasion then you have not been successful. However, we will keep all applications on file and be in touch if any future roles match your skills.