

Electronic Product Development

At HTG we provide you with a complete spectrum in engineering services by offering you hardware, software, firmware and mechanical capabilities. We design your product to the requested specifications and functionality and prepare it to be manufactured in China, and then provide you with China manufacturing services through our partners' facilities.

HTG's primary market focus is:

- Wireless devices like GPRS, GPS and RFID applications.
- Energy saving devices like LED lighting or solar power applications.
- Handheld consumer applications.

Examples of some of our more recent projects:

LED indoor lighting

Design of LED lights that can replace incandescent and halogen lights. The LED lights have a lifetime of over 15 years and consume 4-5 times less energy. Each light variant is dimmable with industry standard dimmers like the Triac, Transistor and Duty cycle based dimmers. Product applications range from 12V to 240V.

GPRS modules

Design of various modules that are customized for a specific application. One such module is for vending machines. The module determines what items were consumed and then reports the data to the Service Head Quarters. The result is more effective management of the vending machines in the field.

Another example of a GPRS module is one for the security industry. The module includes a small digital camera and is able to listen in on the ContactID communication between sensors and the controller. Once a specific sensor is triggered, the module takes a picture and reports the data back to the security company. This provides the company the ability to detect false alarms and thus greatly reduces the cost of unnecessary call outs.

HTG has a wide range of design capabilities. Contact us for details.



Concept

Specification

Design

Prototype

Field run

Certification

Mass Manufacture



Clients:

ELEDE



A Manufacturing Holdings & Consulting Company



Hope Tech Global provides a "Full-Service" Product Development process that includes hardware, software, firmware and mechanical engineering capabilities along with China Manufacturing services

Concept

The partnership with HTG starts at the conceptual stage. At HTG we **begin with the end in mind**. Our Western experts will review your concept and brainstorm with you. We will provide you with a proposal that includes a game plan for the next phases. Working with HTG provides you with **clear communication** and a team that **continually strives after more innovation**.

Specification

During the critical specification phase a senior Engineer will work with you to determine product performance requirements. We will also map out the supply chain and determine the estimate unit cost and lead-times. Our **continued focus on cost and lead-time** not only provides you with an optimal product cost but also provides you with a **highly scalable solution** that enables you to quickly ramp-up from 10s to 100,000s.

Design

Our team of engineers is fully equipped to turn the specification into a **high quality** blueprint ready for manufacturing. We perform electronic hardware and software design as well the mechanical and industrial product design. Standard deliverables include Schematics, PCB layouts, DXF drawings and STP files.

Prototype

During the prototyping phase we provide you with low risk rapid prototyping. By using low volume PCB fabricators and 3D printers we are able to provide you a working prototype without all the upfront plastic mould costs. This enables you to quickly have a working product in the hand that closely resembles the final result.

Verified field run

With the verified field run the plastic moulds will be produced and a small batch of products will be manufactured. The units will be placed in the field for extensive field testing. Successful completion of this phase allows you to move with confidence into the mass manufacturing.

Certification

HTG can also assist you with getting you the appropriate certifications like CE, FCC and UL.

Mass production

Finally we provide a full turnkey solution for mass manufacturing. The result is a highly scalable solution at optimum cost because your product was designed for China manufacturing from day 1. Our western management with its **continued focus on quality and IP protection** will ensure that you have peace of mind through out the whole process.