

A Beautiful Project: Ascari KZ1 System Controllers

The Client:

Xitek Ltd. Is a leading PCB and electronic design and development company with a strong manufacturing capability and domain experience within the automotive industry

The Aim:

Ascari wanted key controller technology for the eagerly awaited and exclusive Ascari KZ1. In particular an off the shelf system did not exist enabling mirror, window and configurable lighting control from a compact controller unit.



The Ascari KZ1

Based on Formula 1 technology and engineering, the Ascari KZ1 is an all carbon fiber sports car. Each is individually hand crafted and only 50 will ever be created. - making it one of the most exclusive and coveted cars in the world.

The 500bhp V8 engine powers the car to 60mph in 3.7 seconds. It has a top speed of 200mph and costs £235,000.

Problem Solved:

Xitek provided PCB design and manufacture, while Concept People developed firmware to a standard befitting of a £235,000 super car. Features included motorised mirrors, adjustable dashboard lighting controllers, electronic window control and microprocessor controlled fuel gauges.

The Technology:

Concept People are not tied to any one technology vendor we select the right tools for the job; often we take into account the skills available within our clients business. For this project we selected PIC Microcontrollers, Embedded C, and provided RS232 Data feeds to assist in the manufacturing process.

The Deliverables:

- Requirements Specification document, Technical Design Document
- Complete RS232 communications layer for embedded C application
- Fully tested firmware.

The Timescales:

This project was completed at our Stroud office and delivered within 6 weeks.

The Outcome:

On time, in budget and perfectly executed take a look at: <http://www.ascari.net>

Keywords: Microchip PIC, C, Real Time, MPLAB, assembler, Firmware project Management, CAN, Data communications, Automotive Design.

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