

# David Bates

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## Profile

I am skilled and experienced engineer who enjoys all aspects of the design process. Approachable and friendly with an eye for detail and I enjoy the satisfaction of a job well done.

## Qualifications

1994 – 1998 BEng (Hons) Microelectronics & Computing

1992 – 1994 BTEC National Diploma Electronics & Computing

## Short Courses

Design for EMC, presented by Tim Williams

Altium Designer: Library Management, Schematic & PCB Design

## Key Skills

Analogue & Digital Design, Design for EMC

Microcontrollers: PIC, 8051, AVR, ARM

Programming: C, exposure to VB.Net, Assembler

PCB Design: Altium Designer, Proteus, Kicad

## Employment History

**Gill Research & Development Jan 2019 - Present**

*Electronic Engineer*

Electronic design and support, working on a range of ultrasonic anemometer systems.

**Parkeon UK                      August 2014 - December 2018**

*Electronic Engineer*

Electronic design and PCB layout using Altium Designer. Software development in C. I was responsible for EMC compliance and environmental testing. I have also developed smart card reader systems in this role. Other developments include Wi-Fi and thermal printer systems. I also travelled to Europe to liaise with other engineering teams within the company.

**Tallix Ltd                      October 2008 - August 2014**

*Embedded Engineer*

Duties included electronic design & simulation, firmware design in C and implementation using PIC and AVR microcontrollers. PCB design using Altium Designer. Systems developed include metal detectors and corrosion monitoring equipment.

**HTEC Ltd**

*Project Engineer*

I was involved in the coding and on time roll out of several promotion schemes for a loyalty card system, one of which was targeted to the entire Iberian Peninsula. This was coded almost entirely in assembler on an 8051 based system. I also liaised extensively with clients all over Europe.

**Trendview Recorders Ltd**

*Electronic Engineer*

I worked on innovative paperless recorder systems. My duties included electronic design and software development in C. I undertook the design of a data acquisition card and also helped to develop a unique mimic bitmap system, allowing the user to view measurement processes in a more intuitive way.

**Monitoring Services UK Ltd**

*Electronic Engineer*

I was involved in the design and enhancement of a radio telemetry based boat weight monitoring system. This utilized a physically large display that was visible from 60 metres. It was successfully deployed in Louisiana, USA. During my time here I also undertook overseas commissioning work in Cyprus, liaising extensively with the customer there.

## **Interests**

I am a licensed radio amateur and design my own equipment. Other systems designed include an ultrasonic recorder used for capturing and analyzing Bat vocalizations, a magnetometer system to detect aurora for radio propagation experiments and a CAN based data collection system that also has a wireless link.