

# Dan Purcell

## Junior Test Technician

Automotive Electronics Manufacture

Bryn Bach

Upper Tumble

Cross Hands

SA14 6DB

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## In a nutshell

### Military Background

RAF Weapons Technician /  
Flight Servicing Mechanic.  
Disciplined, reliable, flexible.

### Automotive Industry Experience

Electronics assembly. Test  
system maintenance, fault  
diagnosis, repair and  
development.

### Proud Geek!

Self-taught programmer and  
electronics tinkerer. Always  
building something and  
always learning.

## Professional Experience

### KSR Electronic Systems

Penllergaer Business Park, Swansea

2012 - Present

- Joined as an operator in 2012 and quickly rose to the position of Technical Operator where my responsibilities included:
  - Process set-up
  - Product / tooling changeover
  - Breakdown response
  - Maintenance
  - SPC
  - Stock control
  - Rework
- Promoted to the position of Junior Test Technician in May 2015. Responsibilities include:
  - Supporting the Test department in developing new and existing test systems
  - Supporting the Quality department in validation and failure analysis activities
  - Breakdown response, fault diagnosis, rectification and maintenance of Test department equipment, including:
    - Parametric and stress test systems
    - Aeroflex ICT
    - Hipot Testers

- Various laser etching and de-flash systems
- PLC controlled test handlers

## **Royal Air Force**

2001 - 2006

- Aircraft Weapons Technician. Working as part of a team, maintaining the weapons systems on the fleet of Nimrod MR2 aircraft. Responsible for fault diagnosis and rectification of all weapons systems, safe handling and loading of explosive stores and also Search and Rescue equipment. Often deployed overseas as the sole WT on crew.
- Composite Servicing Mechanic. Responsibilities included physical checks of the skin, undercarriage, flying control surfaces, brakes, lights, engines and tyres. Also refuelling and replenishing Liquid Oxygen, Nitrogen, Hydraulic Oil, Coolants, Water and Engine Oil. Constantly working under pressure to maintain the flying programme.
- Twice attached to the station armoury at RAF Aldergrove, Belfast. Responsible for issues and receipts of weapons and ammunition as well as servicing of small arms.

## **Hobbies**

- Programming
- Tinkering with an Arduino or Raspberry Pi
- Playing guitar, bass and keyboards
- Laser cutting/etching

## **Interests**

- New technology
- Artificial Intelligence
- Bitcoin and Crypto-currencies

## **Coding skills**

Java:

Wrote an artificial life simulator with Neural Networks and a Genetic Algorithm.

C#:

Wrote a Neural Network library and created an Automated Optical Inspection system using a Raspberry Pi.

Python:

Various web scraping scripts, including one that writes live currency exchange data to an OLED display.

C/C++:

Created a custom MIDI controller using an Arduino.