



EXSEL DYTECNA
ENGINEERING

Software & Electronic Systems

Complete 'turn-key' project and systems engineering approach including requirements capture, design, manufacture, testing and certification.

Multitier Client Server / Database & Web Sever / Fixed and mobile applications (Android) / Microsoft Windows and Linux / Java, C, C#, C++, VHDL, UML / PLC / Middleware / Embedded Systems



Overview

The Exsel Dytecna facility based at Welshpool, Powys, UK is the group centre of excellence for design, manufacture and testing of software and electronic systems and offers proven expertise in Systems Engineering where reliability, safety and protection are paramount.

As part of a larger leading independent engineering solutions and services company, the Systems Engineering team utilise innovative methods to meet a customer's specific needs.

Exsel Dytecna provide solutions that include bespoke electronics and embedded software that provide solutions for demanding customer needs where ruggedisation and extreme electronic and climatic environments are key user requirements.

Encompassing all stages of the project from requirements capture, through design and development to manufacture, test and certification, Exsel Dytecna provides customers with a low risk high quality approach to software and electronic engineering.

Complementary technical expertise includes power distribution and management solutions, machine to machine (M2M) communication devices and condition monitoring systems.



**Exsel Dytecna is a member
of the Electronic and
Software Technologies
Network for Wales**





Software

Exsel Dytecna produces fully engineered and supportable software applications to meet a particular customer's project specific requirements including testing and certification to the relevant technical, safety, security and legislative standards.

With particular experience of mission critical systems, Exsel Dytecna's approach, scope and capability include:

- Approach - Agile' or 'fixed feature / fixed price'
- Fully documented and supportable Design, Production and Testing
- Fully traceable development and coding
- 'Badged' with client's name with full IP transfer to client
- Fully transferable code and documentation for support by a third party
- High level of security both during development and for the finished product
- Provision of contract staff at customer's premises

Electronics

Exsel Dytecna designs and produces fully engineered, documented and supportable electronic systems to meet a particular customer's project specific requirements.

Exsel Dytecna offer a true 'turn-key' scope of supply including all stages from product concept to product realisation, from specification writing, design, development, prototyping and testing through to manufacture, assembly and certification to the relevant technical, safety, security and legislative standards.

With particular experience of mission critical and safety critical systems, Exsel Dytecna's approach, scope and capability include:

- Approach – Design-for-Manufacture' and 'lowest life-cycle cost'
- Fully documented and supportable Design, Production and Testing including obsolescence management
- 'Badged' with client's name with full IP transfer to client
- Both electronic and physical specification compliance (EMC and physical shock and vibration)
- Fully transferable design information and documentation for manufacture and support by a third party

```
Driver.java
@Override
public void run() {
    setName("BT Connected");
    DYTLog.v(TAG, "Beginning Bluetooth c

    final byte[] buffer = new byte[BUFFI
    byte[] messageBuffer = new byte[BUFFI
    int bytesRead;
    int i;
    int currentMessageBufferIndex = 0;
    boolean brokenMessage = false;

    // Keep listening to the InputStreame
    while (true) {
        try {
            // Read from the InputStreame
            bytesRead = inputStream.read

            for (i = 0; i < bytesRead; :
                // Ignore carriage retur
                if (buffer[i] != '\r' &
                    // > marks the end o
                    if (buffer[i] == '>
                        if (brokenMessag
                            brokenMessag
                        } else {
                            completedMes
                            synchroniz
                                OBDReque
                            }
                        // TODO the
                        // complet
```

