Alex Parry

Student of Electronic Engineering at Bangor University

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Projects

Extended Project Qualification — *ECG-Audio Interpreter*
September 2015 - July 2016

A project undertaken in sixth form, in which I created a device for interpreting ECG signals and converting them into audio.

Group Project — *Wearable Posture Monitoring System*
September 2019 - May 2020

A project in my second year of university, for which I was the technical lead, in which we created a shirt that can actively monitor the wearer's posture using gyroscopic sensors.

Dissertation/Final Year Project — *Real Time Robotic Finger Control via Rotational Attenuation of Photon Polarisation*
September 2020 - Current

My ongoing dissertation project, using a number of photonics principles to control a robotic finger via the motion of a real finger, using the change in intensity of a photon beam connected via a fibre optic cable, through the use of triple polarising filters.

Hobbies and Interests

Historic Re-enacting

Reproduction and curation of replicas of historical artefacts and portrayals of historical settings from the 4th to 15th centuries. This involves lots of practical hand crafts such as metal, leather and wood working.

Computer Gaming

Online and singleplayer computer games, and DIY computer assembly.

Tabletop Wargaming

Undertaking tabletop wargames such as warhammer 40k (involving model making and painting), as well as some tabletop RPGs.

Skills

Honest and efficient information delivery.

Outstanding public speaking ability.

Creative and particularly lateral-thinking.

Adaptable and good at making decisions under pressure.

Very proficient at the English language in both written and verbal communication.

Very strong IT skills with familiarity in a swathe of design and editing software packages, particularly for 2D CAD and PCB design (EasyEDA, Altium, PSPICE, AutoCAD, etc.)

Exceptional problem solving ability.

Proficient knowledge and experience of programming languages such as Python, C, and Arduino.

Experience of solo and accompanied international travel.

Education

Bangor University, Gwynedd:

BEng *Electronic Engineering*
September 2017 - Ongoing
(predicted finish July 2021)

Sussex Coast College, East Sussex:

BTEC Level 3 *Engineering* – D*D*
September 2016 - July 2017

AS *Mathematics* – B
September 2016 - July 2017

Heathfield Community College, East Sussex:

Extended Project Qualification *"Artefact"* – A
September 2015 - July 2016

AS *Computer Science* – D
September 2015 - July 2016

AS *Physics* – D
September 2015 - July 2016

(only relevant GCSE results listed. Total 11 x A*– C)

GCSE *Mathematics* – A*
September 2010 - July 2015

GCSE *Electronics* – A
September 2010 - July 2015

GCSE *Additional Science* – A
September 2010 - July 2015

BTEC Level 2 *Game Design* – A
September 2010 - July 2015

GCSE *Physics* – B
September 2010 - July 2015

GCSE *English Language* – C
September 2010 - July 2015