Curriculum Vitae — Benjamin James Drury

Details:

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Professional Profile

I am Computer Games Programming (BSc) graduate from Northumbria University in Newcastle. I'm driven to achieve the best I possibly can in everything I do from repeatedly receiving the top grades of my course to keeping my programming and maths skills sharp. I am readily able to adapt to any and all situations presented to me, and have experience, if limited by age, with solving many different programming problems in a variety of languages. Examples include making a game engine in C++, a robot with a Raspberry Pi and Python, a fully-fledged game in Unity3D and C#, an embedded system for simulating a motor encoder in C, and several Android apps written in Java. My quietly confident attitude to things mean that I can get on with a task and complete it efficiently and effectively.

Qualifications

GCSEs

Maths | Chemistry | Business, Administration, and Finance | Business Higher Project | Citizenship: **A**

Physics | Electronics | English Literacy | English Language: **B**

ASs and A2s

Double Business Applied :	**A2—AB**	Government and Politics:	**A2—D**
Computing:	**A2—A**	Economics:	**AS—D**

Degree (To be completed)

Computer Games Programming (BSC) : **First Class Honours**

Course Modules include Maths, OOP, C++, Java, Hardware, AI, PS4 Development, and the Graphics Pipeline.

Best Skills

- **Working individually and in a team —** I've completed several personal projects such as an Android app for helping people with diabetes track their blood glucose levels and insulin doses, which I completed individually. As a team member, I spent nine months working alongside other engineers in one of the software teams at BorgWarner to produce the encoder simulator.
- **Adapting to different situations —** I regularly put myself in new and interesting situations purely as a learning exercise, from going into an embedded software placement despite being a games programmer all the way to climbing Kilimanjaro. I have become quite adept at simply analysing a challenge and then dealing with it.
- **Time management —** Having spent a lot of time on course work based subjects and never having come close to missing a single deadline, my ability to prioritise tasks based on a multitude of factors is undisputable.

Technology Skills

Programs: *Microsoft Visual Studios, Keil µVision, Eclipse, Android Studio, Git, TortoiseSVN, Unity3D, Unreal Engine, Godot, Maya, Design Spark, Microsoft Office, WYSIWYG Web Builder, WordPress*

Languages: *C, C++, C#, Java, Python, TCL*

Previous Jobs

Cleaning Supervisor — (September 2012-August 2015) I worked at Saffron Walden County High School after school three days a week for two hours each day both cleaning and supervising the cleaning of specific areas of the school since a promotion in September 2013.

App Development — (December 2015-September 2017) I began my own App development business where I created multiple apps both Android and Desktop for several companies including the L P Group to manage their day to day dealings with customers.

BorgWarner Placement — (September 2017-June 2018) I had a 9 month placement for the duration of my third year of University where I was writing both desktop and embedded tools using every language I know excluding Java to aid other developers on the team. This includes software that was being used by all Gateshead engineers daily when I left.

Work Shadowing/Experience:

PFC Engineering — (July 2011) Two-week duration where I was tasked with building power factor correction unit trays and even built a unit (FS100).

RedRat — (July 2014) One-week duration where I was tasked with creating example IronPython scripts for RedRat customers to use as reference for the advanced features of their software. They were so pleased with the work I did I was given a Raspberry Pi which I later used to control a small self-built robot.

Volunteer Work

NCS Project — Under the government run scheme, we helped a leading member of Dig-It and Accuro to turn an old barn at Stonebridge Farm in Little Walden (Essex) into a club house for adults with learning disabilities to learn and participate in gardening activities.

Explorers — With my local Explorer Scout group, I have taken part in numerous litter picks in and around the Saffron Walden area as well as acting as a gateman for events and putting up and/or taking down marquees for and after events.

Village Fete — Most years, I attend the fete at Little Chesterford and collect donations for the village whilst on stilts.

Beavers — For both my gold and silver D of E I volunteered at my local Beaver scout group.

Farm club — For much of my school career I volunteered at the on-site farm during my lunch breaks and spare time including several Christmas days.

Diabetes Control — I have been working on an app to assist diabetics in keeping track of there blood glucose levels and insulin doses. The app will be freely available when it is released and doesn't even contain ads.

Key Achievements

Southern 50 — In February 2012 I undertook a hike in a team of five to do a fifty mile walk (eighty kilometres) in under 20 hours. This also happened to be in the cold snap, average temperatures were roughly minus fifteen degrees. I was one of the two from our team who successfully completed the full hike in 19 hours and 19 minutes.

Jailbreak — I have undertaken six of these whilst I was still young enough to compete. The aim is to reach point B from point A whilst people try and catch you to take your lives away. The winning team is the team with the most lives out of everyone upon their return. In September 2011 and 2012 I was on the winning teams, having been the team leader in 2012. I also lead a team in 2013, however we were placed second.

Jack Petchey Award — I have obtained a Jack Petchey Award for helping at my local youth club.

D of E — I have now completed my Bronze, Silver, and Gold D of E awards.

Chief Scout Awards — I have achieved my Chief Scout awards all the way up to the Queen scout award, which is the highest within the scouting movement. I was presented with it at Windsor Castle where I also took part in the St George's Day Parade.

Rotary Club Award — I was awarded the Rotary Club Award in 2007 for my charity work.

Nepal trip — In 2013 I participated in a trek up to Annapurna base camp in Nepal, delivering gifts to school along the way and coming to a final climbed height of 4,500 metres.

Africa trip — In 2016 I climbed to the peak of Kilimanjaro after having raised £3000 for Childreach International.

Judo — I have taken part in several Judo competitions and regularly attended training at the Ickleton and Sawston Kempo Judo Club from February 2006 to 2012. In that time, I attained everything up to and including a blue belt.

Interests

Camping/Hiking — I take part in as many camping and hiking activities as I can. It is by far one of my favourite hobbies.

Explorers (Scouts) — I have been a member of the Saffron Walden Scouts and then part of the Saffron Walden Explorer Scouts starting in 2008. In this time, I was appointed the patrol leader for a group of Scouts within the section.

Climbing — I have taken and passed tests to become part of climbing clubs in Harlow, Loughborough, and Newcastle.

Programming — I have written several programs of various sizes and complexities in the programming languages mentioned previously. Whilst my passion is creating game technologies, I still find time for small programs like decipherers and puzzle solvers. Almost all my programming skills have been self-taught and the teaching I received at Northumbria University occurring only after I was familiar with the previously mentioned languages.

PCB Design — Whilst I'm not necessarily the best at it, I find designing PCBs for various of my smaller personal embedded projects to be quite cathartic. Apart from whilst at BorgWarner, I have never actually got a PCB I have designed produced and used it in a project, but I still consider designing them to be interesting.

Parkour — From 2013 to 2015 I attended classes in overcoming obstacles at speed through the uses of various vaults and manoeuvres at a community hall in Cambridge.

References

Mr Lyndon Pallet		**Mr Ian King**		**Mrs Anthea Hoverd**	
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Further details available on request.		Further details available on request.			