# Ian Hudson

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## Personal Profile

I am a programming currently working at Sumo Digital Nottingham.

Throughout my time at Sumo Digital Nottingham I have strived to improve my technical skills as well as my interpersonal skills. With the goal of improving myself, but also the people around me.

I am focused on learning and improving as well as bringing a happy atmosphere wherever I work.

## Technical Skills

Knowledge in

IT skills covering a range of software and version control

- C++,
- C#,
- GLSL/HLSL/CG,
- OpenGL

- Bitbucket,
- Git,
- Perforce,
- Unity Engine,
- Unreal Engine,

- Visual studio 2019,
- Jira,
- Confluence,
- Azure Dev-ops

## Education and Qualifications

### University of Gloucestershire

Computer Games Programming (BSc Hons)- Achieved Grade 1:1 (Frist)          2015 – 2019

Third year modules include:
- Individual Research project (76) – Created a Unity plugin to generate racetracks using a Voronoi diagram.
- Advance Group Project (73) – My final year project was to create any kind of game within a team for the end of year convention known as COMX. The game created was a top down spies vs mercenary game. In which I was the network programmer and gameplay programmer.
- Graphics programming and Shaders (85) – Render a 3D scene in real time.
- Indie Game Development (78) – I created a small mobile puzzle game.

Second year modules include:
- Programming Low Level Architecture (70),
- Programming High Level Architecture (70),
- Game Engine Programming (75)

### Abingdon and Witney College                                          2013 - 2015

BTEC level 3 Information and Technology Extended Diploma          DDM

### Larkmead School                                                      2010 – 2013

6 GCSE's Grade C and above including a B in Math

# Relevant Experience

**Sumo Digital (Nottingham) - Programmer**                      2021 – Present

While being at Sumo Digital Nottingham, I have contributed to porting Forza Horizon 4 to Steam. I was involved in porting network code from the UWP platform to Win64. I also solely on implementing steering wheel controller with Direct Input.

**Sumo Digital (Nottingham) - Junior Programmer**               2020 – 2021

**Sumo Digital (Leamington) - Junior Programmer**               2019 – 2020

Throughout my time at Sumo Digital Leamington, I have had the opportunity to learn and develop my skills. I have been given responsibilities of developing and maintaining core systems used by the whole development team as well as collaborating with other disciplines on gameplay features and tools.

**University of Gloucestershire - Research Placement**          2017 – 2018

**University of Gloucestershire -**

**Assisting in Level 4 module Programming and Mathematics**     2018 - 2019

My key responsibilities in this role included assisting students in their assessed tutorials and module projects in C++. I communicatee concisely towards the students, so they were able to understand what the code is doing and offer help and advice when requested or needed.

**Brain's Eden – Competed in Brain's Eden Games Jam**           2018 & 2019

I partook in Brain's Eden 2018 & 2019 where I was in a team of 5 using the Unreal Game Engine/Unity. I learnt the importance of cutting features and regular small meetings to keep track of the development of the project as well as consistent play testing to ensure the game was enjoyable to play.

# Additional Experience

**University of Gloucestershire – Open/Applicant Day Helper**   2017 – 2019

**Homebase - Part time member of the replenishment team**      2013 – 2015

**Low and Oliver – Shadowing an Electrician**                  2010 – 2010

# Hobbies/Interests

**Shotokan Karate**

I have done karate for over 8 years and have reached the grade of Nidan ($2^{nd}$ Dan black belt). This required a high level of dedication and motivation to be able to reach $2^{nd}$ Dan. I have gained discipline and team leader skills from this.

**Badminton**

Since the second year of university I have attended weekly recreational badminton sessions. Through these sessions I have met a wide range of people. I have developed my confidence in talking to new people.