

Christan Matthew Hare

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Personal statement

I am a recent graduate of the University of Sheffield, having completed my Electronic and Electrical Engineering Bachelors with a Class One Honours, with my final project being focused on quadratic linear control feedback systems. Throughout the last year of my degree and the subsequent year afterwards I have been working with RevolverAV within TV & Film. This involved working both on set as a playback technician and off set designing (CAD) and manufacturing props with 3D printed components, using programmable microcontrollers to provide visual feedback and functionality. Other aspects of my business include consumer electronics repairs, as well as the design development and construction of computer aided manufacturing tools such as CNC machines and 3D printers.

Work history

January 2022 to present - working with VisualSkies LTD (operating as a LTD company CMLeveret) - as an on location technician across a number of productions and projects mainly working within TV Film and Game VFX.

- Experience on location, rigging and operating large photogrammetry array volume (up to 100 cameras controlled by central sever). Used for 3D scanning of actors, goats and other large assets (Software including CaptureGrid, Metashape, Beoray). This is complimented by a wealth of experience with handheld photogrammetry.
- Experience on location LiDAR 3D Scanning with the Trimble X7 and Leica P40.
- Data handling and management of large file structures for handover to major productions.
- Handling and manipulating 3D assets, including re-meshing, decimating, Texture & UV unwrapping and cleanup (Blender).

June 2019 to present - working with RevolverAV LTD (operating as a LTD company CMLeveret) - as an on set Graphics Playback Technician. My work with Revolver has spanned across over two dozen TV & Film productions.

- Experience off and on set when rigging/striking and filming major TV & Film production, gaining experience within a number of different departments on set.
- Playback and creation of (predominantly Adobe Flash based) mobile and desktop interactive graphic apps, providing a large amount of experience with the Adobe suite; illustrator, After effects, Animate.
- Most recently working on Avenue 5 (6th Sep - 14th Dec 2021 - Leavesden studios, Watford).

My work for RevolverAV also includes prop making and modifying of consumer electronics devices for use within Film & TV.

- A wealth of experience with Fusion360, Blender, Unreal Engine for 3D scanning, modelling and virtual production.
- Extensive experience within computer aided manufacturing methods (i.e 3D printing & CNC) to rapid prototype and produce housings and components, reducing cycle times.
- Experience with the construction of electrical circuits and programming of microcontrollers (Arduino/RaspberryPi/ etc) (mainly in C/C++) to respond to inputs, providing visual feedback to the actor via Led matrices/displays/etc.
- These props can be seen on screen within productions such as Truth Seekers (Amazon), Hannah (Sky One), Vera (itv) and The Syndicate (BBC).

2013 to present - CMLeveret - Self-employed, offering consumer electronics support modification and repairs, 3D printing, scanning, design and manufacturing. Business owner and director, overseeing and making critical decisions concerning all facets regarding operation of a small business, hence taking on all responsibilities associated with self-employment and the operation of a small business.

- Sales and technical support, providing people skills involved in communicating with existing or potential clients and business partners.
- Logistics, coordinating suppliers with incoming and outgoing devices that have received or are awaiting support.
- Practical repair and troubleshooting skills, including surface mount board level repairs with devices spanning from 2013 to the latest devices of 2017 (Smartphone's (IOS/ Android), Tablet's, DSLR's, Notebooks, Desktops (Windows/ Mac/Linux, etc.).
- Providing 3D, modelling, scanning, printing, manufacturing, product development consultancy and services.

July 23rd to September 7th 2018 - Addition Design - Placement. During this placement I was tasked with conceptualising, designing, building and testing two new prototype additive manufacturing platforms, considering the hardware, mechanical and software/firmware requirements to allow Addition Design to develop cutting edge am techniques for their business.

- Experience when working autonomously within a set budget and timeframe.
- Experience when adapting software for slicing 3D models to produce Gcode, as well as modification of firmware for computer control of the 3 axis and extrusion systems (use of perl and C/C++).
- Real world practical engineering experience, collaborating with other departments within the company to provide effective solutions to problems as they arose.
- Use of Solidworks in conjunction with FDM, SLA & SLS printing techniques to rapidly prototype components for use within the prototype printing platforms.
- Experience creating simple functional and reliable drive systems, utilising; electric servo motors, sensored brushless motors, stepper motors, etc.
- Experience when combining drive systems with the appropriate mechanical systems to provide reliable and accurate control for specific applications, mainly; ball screws, pulley systems, trapezoidal screws, linear rails, etc.
- This work with Addition & design continues to this day, supporting the company with the development of the prototype machines developed by myself during placement.

Education and training

University Of Sheffield 2016-2020

- Graduated with a Class One Honours within Electronic and Electrical Engineering.
- Achieved 84% overall for final year project: 'Quadratic Linear Control of a Three Dimensional Inverted Pendulum System'.
- Professional Behaviour Award for my contribution within the UOS Global Engineering Challenge.
- Completed Engineering foundation year obtaining A-Level equivalent grades of A, B & B in Physics, Maths & Further Maths.

Caldy Grange Grammar School 2008-2015

- Sixth form student Prefect.

A-Level grades

- Electronics- A, Biology- B, Physics- C.

GCSE grades

- D&T Electronics - A*.
- Math, Physics, Chemistry, Biology, Geography - A.
- History, RS, English literature, English language - B.

Personal interests and activities

I am a very active person, both physically and mentally, spending as much time on the things that interest me the most and using them to challenge myself at every opportunity. I pride myself on being a flexible, reliable, creative, self-directed and good humoured individual, both at work and in my personal life, having used these traits to build an honest and outstanding reputation, maintaining these traits even when under pressure. Below is a short list of my current interests:

- 3D Printing, manufacturing and design, operating FDM, SLS, DLP printers for product design and construction of new manufacturing methods, product design and 3D art.
- 3D scanning/modelling, photogrammetry, SLA & LiDar scanning. Utilising software such as; Blender, Fusion360, Meshmixer, Metashape, instant mesh, etc.
- Photography, video editing & graphics; Photoshop, AE, Animate, Illustrator (Instagram: @christanhare).
- Cycling, personal health diet & a regular gym routine.
- Building & flying long distance FPV drones.
- Blockchain and NFT.
- Working with programmes such as Unreal Engine and Blender to create 3D artwork and animations.
- Creative programming using JavaScript and canvas sketch to create 2D artwork and animations.

References

David Williamson

Director

RevolverAV

dave@RevolverAV.tv

Tom Fripp

Design Director

Addition Design

Tfripp@Addition.Design

Dr. Ian Farrer

Senior Lecturer in Semiconductor Epitaxy

Semiconductor Materials and Device Research Group National Epitaxy

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Credits

- Ridley Scott's Napoleon - AppleTV - (2022) Malta (VFX/3D Scanning)
- Guy Ritchie's The Interpreter - Miramax - (2022) Zaragoza Spain (Graphics/Playback)
- Fifa 2023 - Fifa - (2022) Lyon (VFX/3D Scanning)
- Good Omens - Amazon - (2022) Edinburg (VFX/3D Scanning)
- Avenue 5 - HBO - (2021) Watford (Graphics/Playback)
- Vera - ITV - (2021) London (Graphics/Playback)
- Nightingale - ITV - (2021) London (Graphics/Playback)
- Tinkertown - CBS - (2021) London (Graphics/Playback)
- Killing Eve - BBC - (2021) London (Graphics/Playback)
- Embankment - Apple TV - (2021) London (Graphics/Playback)
- Midwich Cuckoo - SKY - (2021) London (Graphics/Playback)
- Red Rose - BBC - (2021) Bolton (Graphics/Playback)
- Devils Hour - Amazon - (2021) Wokingham (Graphics/Playback)
- Brussels - Apple TV - (2021) London/France (Graphics/Playback)
- The Scripted Isle - SKY - (2021) London (Graphics/Playback)
- Darkness Rising - Playground - (2021) Bristol/Newport (Graphics/Playback)
- The Responder - BBC - (2021) Liverpool (Graphics/Playback)
- The Bay - ITV - (2021) Wigan (Graphics/Playback)
- Guy Ritchie's Operation Fortune - Miramax - (2021) Turkey (Graphics/Playback)
- Lagging - BBC - (2020) Manchester (Graphics/Playback)
- Ray James - Apple TV - (2020) London (Graphics/Playback)
- The Offenders - BBC - (2020) Bristol (Graphics/Playback)
- Angela Black - ITV - (2020) London (Graphics/Playback)
- The Search - Netflix - (2020) Halifax (Graphics/Playback)
- This Time with Alan partridge - BBC - (2020) London (Graphics/Playback)
- LinkedIn Advert (2020) London (Graphics/Playback)
- Embankment - Apple TV - (2020) London (Graphics/Playback)
- The Beast Must Die - Amazon - (2020) The Isle of Wight (Graphics/Playback)
- Cobra - PBS - (2020) Manchester (Graphics/Playback)
- Coca-Cola Advert (2020) London (Graphics/Playback)
- Vera - ITV - (2020) Wallsend (Graphics/Playback)
- Too Close - ITV - (2020) London (Graphics/Playback)
- The Syndicate - BBC - (2020) Leeds (Graphics/Playback)
- The Little People - (2020) London (Graphics/Playback)
- Intergalactic - SKY - (2020) Castleton (Graphics/Playback)
- Roadkill - BBC - (2019) London (Graphics/Playback)
- Cash Truck - Amazon prime - (2019) London (Graphics/Playback)
- Cold Feet - ITV - (2019) Manchester (Graphics/Playback)
- Traces - Apple TV - (2019) Bolton (Graphics/Playback)