

David Hearl – Curriculum Vitae

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Junior Front End Developer

I am a junior developer, currently enrolled in a Full Stack software Development Diploma. I bring an excellent working background from the Automotive and Marine Industries. I am comfortable in front end and back-end development, skilled in HTML, CSS, JavaScript, Python and Visual Basic.NET.

Technical Skill Set

JavaScript	HTML5	Flask
Visual Basic.NET	Django	Materialise
Python	jQuery	PostgreSQL
CSS3	Bootstrap	

Employment History

Designer

MJM Marine / Mivan (November 2021 – Present)

At MJM Marine and Mivan it was my responsibility to migrate the current CAD workflow from a two-dimensional environment to a three-dimensional solution, whilst also developing a custom Autodesk Inventor Add-In using Visual Basic.NET.

- Created a custom Add-in for Autodesk inventor, including the creation of tools to aid in the design and manufacturing process, such as automatic cutting lists.
- Created standard design processes and procedures for our workflow within CAD/CAM and delivered training on Autodesk Inventor and iLogic.
- Created a lifecycle development roadmap for the current design systems to aid migration towards Autodesk Inventor.

CAD Engineer

Freudenberg (September 2019 - November 2021)

It was my responsibility to develop an online configuration system with a Front-End Web UI. This included management of the company's CAD solution and manage a multinational team, primarily based in Brazil and Mexico. I was also responsible for the entire lifecycle development of the system.

- Leading a project using Autodesk Inventors API to automate the design and manufacturing processes with proven commercial benefits. This included regular progress meetings with the board of directors to gain funding and buy in.
- Created, controlled, and maintained automated and semi-automated multilinguistic drawing templates to reduce lead time, minimise errors and avoid repetitive processes.
- Developed documentation and delivered standardised CAD training on Autodesk Inventor and AutoCAD.
- Design and then procurement of parts to construct bespoke testing machines.
- Co-ordinating prototype samples through each stage from design into production.

CAD Apprentice

Freudenberg (January 2017 - September 2019)

It was my responsibility to introduce 3D Printing into the manufacturing workflow to reduce the time taken and cost to manufacture products whilst improve functionality for some applications. I was also responsible for the control and storage of local the CAD system and documentation.

- Led a project which introduced 3D printing into the workplace for prototypes, visual aids & jigs, replacing the need for machined parts, which lead to a reduction in cost of 60% and time by 89% (I improved this by a further 97% and 30% respectively in my next role).
- Constructing 2D & 3D CAD drawings & layouts with BOM for manufacture, including proper revision control.
- Designed custom tool sets for new machines.
- Started to create parametric models and drawings using iLogic.
- Proficient in Microsoft applications such as Excel, Word & Outlook.

Engineering Apprenticeship

Freudenberg (September 2015 - January 2017)

I started my apprenticeship in electrical maintenance, this involved routine maintenance and changeover of custom machinery (TPM), this often involved shotblasting, replacing components and SPC checks (Process Capability).

- Wired Vision PLC systems and aided with the installation.
- Participated in a project to standardise tooling and create a storage system.
- Participated in a green belt project to reduce waste when machining PTFE washers.

Qualifications

Certificate of Apprenticeship in Engineering Manufacture	May 2019
NVQ in Engineering Drawing	May 2019
Diploma in Engineering	May 2019
Green belt Six Sigma qualification	July 2018
Autodesk Inventor iLogic Certificate	August 2018
AutoCAD Essentials Training	May 2018
Autodesk Inventor Essentials (Parametric Modelling) Certificate	February 2018
3D Printing & Maintenance training	February 2017
Risk Kaizen health and safety certificate	September 2015

Education

2021-2022	Code institute - Diploma in Software Development (Current)	
2015-2019	Tyne Metropolitan College	
	<ul style="list-style-type: none"> • HNC Mechanical Engineering • BTEC in Electrical Engineering with Double Grade Distinction • Functional Skills in ICT Level 2 • Performing Engineering Operations (PEO) 	July 2019 July 2017 February 2016 January 2016
2002-2015	Kings School Tynemouth	
	<ul style="list-style-type: none"> • 4 GCSE's Grade B [Maths, Science (Double Award), Design Technology] • 3 GCSE's Grade C [Business Studies, Geography, English] 	

Hobbies and Interests

Physical exercise and fitness are important to me. I enjoy a variety of sports & activities, going to the gym, running, and playing rugby. In my spare time I enjoy building computers, gaming and maintaining servers.

I also enjoy DIY and engineering-based projects, which can be handmade, fitted, 3D printed or remain completely conceptual.

References

References are available upon request.
