Paul Lavender-Jones

28 Millmead Road. BA2 3JW, Bath.

+44 7860379405

plj23@bath.ac.uk • linkedin.com/in/paul-lavender-jones/ • github.com/paulli

In my penultimate year at the University of Bath studying for a master's degree in Mechanical Engineering. I have an avid interest in technology, specifically with multidisciplinary problems in biotechnology. Key skills include data processing & analysis, software development and mechanical design. Being driven and analytical, I am eager to learn new skills.

University of Bath,	MEng Hons Mechanical Engineering with Industrial Placement	2017 – 2022
Somerset Marlborough College,	Grade: Predicted 1:1 A-Levels with an EPQ on Natural Selection: A*	2013 – 2017
Wiltshire	Maths: A* Further Maths: A Physics: A Economics: B	2013 – 2017
Wittering	GCSEs including Chinese (8A*, 2A, B)	
Projects		
Efficiency for Access/Group	Project team lead designing a novel, affordable and efficient off-grid	February 2020
Business Design Project.	DC water purifier and kettle for use in Sub-Saharan Africa	– Ongoing
Engineers without	Detailed technical and commercial feasibility report to aid product	
Borders/University of Bath	design with potential to scale and UN sustainability goals in mind	
Technology for Social Care	Working towards an IoT integrated app that helps patients with the	September 2020
Vertically Integrated Project,	early stages of dementia	– Ongoing
University of Bath	Commercial sub-team leader; part of wider team across a range of	
D 15 15 14/1 51 /DI	disciplines from across university faculty and year groups	
Portfolio Website/Blog,	Built an open-source website/blog to showcase my work using Svelte, Till in the control of	June 2020
Personal	Tailwind and Sanity.io	– Ongoing
LiDAD up compling algorithm	paulli,me	November 2019
LiDAR up-sampling algorithm	• Starting with market and academic research, created a prototype algorithm for up sampling LiDAR point clouds using Python	– June 2020
development, The Technology Partnership	Validated against real-world LiDAR data to find a vast improvement in	- June 2020
The reciniology raithership	performance compared to other ML techniques	
	Presented work clearly and regularly to my team at work	
Technical Feasibility,	Group presentation exploring the physical, economic, safety and	April 2019
University of Bath	practical feasibility of a domestic anaerobic digester	•
Syringe Machine Design,	Designed a syringe filter assembly machine for vaccine use in CAD	February 2019
University of Bath	• Technical report was produced justifying each choice of bought and	– April 2019
	custom parts for maximum throughput and design for manufacture	
	Failure mode and criticality analysis used to design for reliability	
Employment		
The Technology Partnership,	Worked in the Sensors and Devices group alongside a multidisciplinary	July 2019 –
Consultant (Placement)	team of scientists and engineers. Varied day-to-day project work; for	July 2020
	example, market research, software development, data analysis,	
	mechanical design and validation testing for multiple projects covering	
	a broad spectrum of industries including LiDAR perception for use in	
	autonomous driving, low-cost gas sensing and rapid molecular flu	
	diagnostics for primary care. Software and firmware, I developed, is now	
	in R&D lab use as part of spinout/start-up, LEX diagnostics.	
Den Creative/Elixirr Creative,	Supported the creative team for a consultancy firm with project work.	July 2018 -
Backend Developer (Intern)	Developed an internal admin system with PHP, Laravel and Vue.js.	September 2018
Computing Skills		
 Python (Numpy, Pandas, 	• Microsoft Office • JavaScript/TypeScript • C#	
SciKit, Jupyter, PyQt)	• Autodesk Inventor • HTML and CSS • C++	
 MATLAB (& Simulink) 	• Solidworks • React/React Native • Git	
• SQL	• Adobe Creative Suite • Svelte • Docker	
Language Proficiency		
Fluent English	Conversational Japanese Beginner Chinese (Ma	andarin)
riaent English		
Other Interests		