Gethin Jack Jones
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Personal Profile:

A motivated and driven undergraduate student studying Applied Software Engineering via a degree apprenticeship in parallel with full time employment in a UKAS accredited testing laboratory. Looking to secure a role within Software, with a keen interest in front end development. I have an analytical and methodical approach to solving problems, which is a part of my day-to-day in my current role as Lead Photometric Engineer at LUX-TSI. My experience is diverse due to my development from administration to systems administration and CRM development to then Technical leadership of the accredited Photometric department. This has led me to develop strong IT skills, with the use of Excel and other MS packages within my role could be considered advanced, strong technical leadership with enthusiasm for project management and quality assurance in line with QMS requirements.

Portfolio website: https://gethinjones.netlify.app/home

Employment

LUX-TSI, Pencoed
November 2017 – Present

Lead Photometric Engineer – Present

- Working closely with the CTO / Lab Manager to ensure all photometric product testing equipment and processes and fit for purpose and suitable to support required tests
- Development of procedures and processes for photometry and spectroradiometry of LED and other light sources and products
- Assistance in the formulation of Technical Quotations for Testing against various IES or IEC standards for standard and custom testing
- Specification, development and commissioning of advanced photometric test centre in Pencoed (European Centre of Excellence)
- Research and development of new test methods in conjunction with equipment manufacturers and other test labs
- Contribution to conformance to ISO/IEC 17025 accreditation.
- Photometric performance testing on Lighting Products including lifetesting
- Responsible for quality assurance aspects involved within the photometric department
- Maintenance of the UKAS scope
- Conducting technical gap analysis to update UKAS scope to latest standards
- Project management of long-term technical projects
    - Lifetime testing of LEDs
    - Lifetime testing of LCDs

Photometric Technician – ended 2019

- Working closely with the photometric engineer, to ensure all photometric product testing is carried out as described in the relevant procedures
- To continuously improve the goniophotometry and sphere laboratories
- To understand and question data produced before passing to next process
- To produce accurate reports and data for transfer to the customer prior to checking
- Contribution to conformance to ISO/IEC 17025 accreditation.

Business Systems Analyst- ended 2018

- General administration
- Project administration
  - Minute taking
  - Maintenance of Gantt charts
- Headed up medical device certification projects
  - Supporting medical device manufacturers with achieving ISO 13485 accreditation through BSI
  - On-site client support with technical files and documentation
  - Audited manufacturing processes
- On-site IT technician support, providing general computer support *
  - Debugging excel worksheets that are used to record test data which incorporate macros for automation
  - Operating and debugging errors involved with Labview based test systems
- CRM development *
  - Setting up of Scoro a work management package adapting it to meet the needs of an accredited lab and keep costs to a minimum
  - Working with developers to scope out APIs to boost efficiency and cut down on manual data entry
  - Simple embedded PHP development to display information on web pages
- Automated test worksheet development *
  - Development of excel worksheets to automate report writing and minimise human error
  - Creation of VBA code to run via macros in Excel
    - Prompt code that ensured the operator was happy with their Test data before being able to PDF.
    - Automated data import from external spreadsheets via single user input. I.e and ID imports an entire line of a task detail
- Debugging and running Test automation scripts *
  - Python scripts using IoT devices such as, temperature sensors and photodiodes which are hosted on Raspberry Pi's for monitoring the lifetime of LEDs.
  - MatLab scripts for analysis of photobiological safety requirements for IPL devices.

The above duties marked with * have continued as my role has changed and has remained consistent.

2015-2017 Various jobs

- Marks & Spencers, barrista
- The Vale Hotel and Resort, events waiter

Projects

My completed and ongoing projects are available here:
https://gethinjones.netlify.app/home

Qualifications

2010- 2017 - Y Pant Comprehensive School

9 GCSES A-C grade
4 A Levels A-C grade. Distinction (A equivalent) in ICT.

2020-2024 Open University

BSc with Hons in Applied Software Engineering
This is a work place degree.