lukacstomi91@gmail.com | +44 75-6565-2449 | Cambridge, UK | linkedin.com/in/tamas-lukacs | tamaslukacs.github.io

TAMAS LUKACS

Senior Engineer thriving on innovation with eagerness to support both software and hardware development by utilising strong methodical approach and diverse technical skills.

WORK & LEADERSHIP EXPERIENCE

QUALCOMM (QTIL) | SENIOR ENGINEER - RADIO INTEGRATION & OPTIMISATION GROUP | CAMBRIDGE, UK | JAN 2017 – PRESENT

Test Lead of receive subsystem on IoT Bluetooth product from test to production chip | 18 MONTHS

- Delivered product successfully in shortest timeframe yet of 8 weeks enabling contract win and strengthening cross-site liaison
- Improved and collected key performance measures, collaborated with designers and technicians, designed test and coded in Python

Developer of test setup and framework to characterise and debug Bluetooth audio performance with interference | 9 MONTHS

- Pioneer in quantifiably describing user experience and correlating it to RF and firmware, engaged customer on future solutions
- Unblocked product release, expanded group's role with firmware debugging, validation and benchmarking of end-products
- Designed novel Python driven test framework, actively participated in high-end customer discussions
- Focused on modular topology, high-level automation in Python and embedded C, research, data munging and analysis

Developer of common chip interface Python tool across sites | 12 MONTHS

- Delivered successful proof of concept, targeted to phase out existing solutions for the next generation of chipsets in late 2021
- Collaborated across sites and groups to unify interfacing with chipsets to facilitate cross-site collaboration
- Full ownership over physical communication layer, exercised all stages of the software development life cycle iteratively

Developer of test framework to analyse and debug particular Bluetooth standard compliance | 12 MONTHS

- Eliminated critical issues and further improved algorithm which now boost performance across all Qualcomm connectivity chipsets
- Took initiative on new role driven by customer issues to analyse and debug Adaptive Frequency Hopping mechanism
- Researched Bluetooth standard and existing implementation, fabricated new ways to debug behaviour in Python visually (PyQt)

QUALCOMM (QTIL) | UNIVERSITY OF GLASGOW MENG PLACEMENT - RIOG | CAMBRIDGE, UK | JUL 2015 - DEC 2015

Tooling developer to optimise and automate testing and reporting as engineering intern | 4 MONTHS

- Saved up 3 weeks of engineering time per chip project by automation via Python, MATLAB, SQL and Microsoft's COM interface

CSR, PLC. | UK ELECTRONICS SKILLS FOUNDATION INTERNSHIP - RIOG | CAMBRIDGE, UK | JUN 2014 - AUG 2014

Near-Field Communication researcher | 2 MONTHS

- Designed, prototyped and tuned impedance matching circuits with overvoltage protection for NFC as part of new IP development

SKILLS & COMPETENCIES

- Creative though problem solving and innovation
- Critical thinker while thorough and dedicated
- Concise and assertive in communication and collaboration
- Leading technically with empathy and foresight
- Effective at mentoring and offer candid feedback
- Transparent at flexible with project management
- Taking initiative to maximise impact
- Excellent Python skills (automation, data handling, GUI, web)
- Intermediate programming skills in Android, Java & MATLAB
- Basic coding in C, BASIC, SQL, VHDL, VBA, LaTeX & HTML
- Practiced both waterfall and agile development processes
- Knowledge in Digital Comms & Real-time embedded coding
- Trained in test equipment operation, remote or otherwise
- Practical knowledge of soldering, prototyping & debugging

EDUCATION & ACHIEVEMENTS

UNIVERSITY OF GLASGOW, UK | MENG ELECTRONICS & ELECTRICAL ENGINEERING | FIRST CLASS HONOURS (90%) | 2011 - 2016

- **Institution of Engineering and Technology Prize (2016)**
  Awarded to outstanding student who shown distinction during IET accredited course
- **Engineering Excellence List & Francis Morrison Awards (2011, 2012, 2013, 2016)**
  Given to those individuals who have shown outstanding academic excellence in any year of Electronics course
- **UK Electronics Skills Foundation Scholarship (2013-2015)**
  Connects most capable Electronics undergraduates with companies, Engineering Intern at CSR and Qualcomm
- **BP's Ultimate Field Trip Challenge Finalist - Top 12 participants out of 409 students (2012-2013)**
  Presented an innovative solution to increasing cost of passenger kilometre travelled at the Royal Institution of Great Britain

ACTIVITIES & INTERESTS

DIY & Electronics | 3D design & printing | Volleyball, Bouldering, Table Tennis | Facilitating the education of autistic children