

# 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 (QTL) | **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 (QTL) | **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
- UK Electronics Skills Foundation Scholarship (2013-2015)**  
Connects most capable Electronics undergraduates with companies, Engineering Intern at CSR and Qualcomm
- 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
- 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