TOMÁŠ PILAŘ

4 Gillies Close ⋄ Cambridge, CB5 8ZD, United Kingdom

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A friendly, competent and dedicated software engineer with experience in UEFI and Linux kernel drivers.
Prefers to work with a good team, designing and delivering well crafted products. Spare time is filled with
friends playing board games or live-action games, or learning more about the technologies he works with.

– "Rare Depictions of Homo Programmeris Systemus"

EMPLOYMENT HISTORY

Qualcomm Inc. (Nuvia acquisition)   June 2020 - *Present*
Senior Staff Software Engineer   *Remote*

· Developed and maintained AP firmware for a novel SoC product
· Designed and developed a custom inter-processor messaging framework with interesting features
· Developed and maintained a QEMU virtual platform for a novel SoC product
· Designed, implemented and maintained the packaging tools and CI framework for the firmware, virtual plaform and the infrastructure itself
· Wrote and gave tutorials on development with Git, Gitlab and VS code

Xilinx Inc. (Solarflare acquisition)   July 2019 - March 2020
Staff Software Engineer   *Cambridge, UK*

· UEFI Technical Lead and Linux Driver Developer
· Full ownership of the UEFI Project including design, development, test and CI
· Mentored junior member of the UEFI team

Solarflare Communications   June 2017 - July 2019
Senior Software Engineer   *Cambridge, UK*

· UEFI Driver and Linux Driver Developer
· Developed industry contacts facilitating higher quality of the UEFI products in-house.
· Tutored junior members of other teams to disseminate institutional knowledge
· Collaborated cross-team to design specifications, implement features, develop OEM products, and debug complex issues.

Solarflare Communications   June 2014 - June 2017
Software Engineer   *Cambridge, UK*

· Test Automation Engineer and Test Developer, Linux Driver Developer
· Designed and implemented test cases for multiple products using asynchronous Python framework based on twisted
· Pioneered in-house CI frameworks streamlining the development process
· Thoroughly benchmarked the linux kernel driver using a custom-built tool
· Created in-house test harness for product web-UI using the Selenium framework

EDUCATION

University of Warwick, UK   October 2010 - June 2014
PhD in Particle Physics
Thesis on analysing data from LHCb to extract Standard Model parameters
Transferrable Doctoral Skills Course
Long Term Attachment in CERN, Geneva (14 months)

University of Warwick, UK   October 2006 - June 2010
MMathPhys (2.1), Thesis in Particle Physics

BASG Milana Hodžu, Sučany, Slovak Republic   October 2001 - June 2006
A-level equivalent (AAAABB)

TECHNICAL COMPETENCIES

Systems Programming (Linux & UEFI)	C (8 years) C++ (2 years)
Test Development and Automation	Python (10 years), Gitlab (3 years), Jenkins (2 years)
Version Control	Git (8 years) and Mercurial (5 years)
Database Design & Administration	T-SQL, mySQL, mariaDB

POSITIONS OF RESPONSIBILITY

GAUSS Monte Carlo Simulation Group October 2011 - June 2014
Decay Files repository manager LHCb Collaboration, CERN

EvtGen Development Group October 2010 - June 2014
Development and technical support University of Warwick, UK

LHCb UK Student Group June 2012 - December 2012
Convener LHCb Collaboration, CERN

University of Warwick Computing Society February 2007 - January 2009
Co-President University of Warwick, UK

OTHER SKILLS

Languages	Slovak & Czech (Native), English (Bilingual), French (Intermediate)
Management Software	JIRA, Bugzilla, Reviewboard, Slack, Confluence
Methodology	Agile development and Continuous Integration
Public Speaking	Experience chairing meetings (up to ~ 40 people)

INTERESTS AND HOBBIES

Professional
Low-level programming (system software or firmware), solving complex problems
Designing robust systems that last, leaving code in better shape, bringing hardware to life
Imparting institutional knowledge

Personal
Games (board, computer, card, and live action), literature, theatre, musicals, travelling, swing dancing

COMMUNICATIONS

UEFI Plugfest Autumn 2016 - 2019
Regular attendee on behalf of Solarflare Communications

Charm mixing in $D^0 \to K_S \pi\pi$ at LHCb June 2014
https://cds.cern.ch/record/2008671?ln=en *University of Warwick*

Model-independent measurement of mixing parameters in $D^0 \to K_S \pi\pi$ decays April 2016
http://link.springer.com/article/10.1007%2FJHEP04%282016%29033 *Journal of High Energy Physics*

Charm mixing and CP violation at LHCb May 2013
Large Hadron Collider Physics Conference *Barcelona, Spain*

Measuring charm mixing using a model-independent technique in $D^0 \to K_S hh$ April 2013
Institute of Physics HEP Conference *Liverpool, UK*

REFERENCES

References available on request