

# TOMÁŠ PILAŘ

21 St Bartholomew's Court ◊ Cambridge, CB5 8JB, 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

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### **Xilinx Inc.**

*Staff Software Engineer*

July 2019 - Present  
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**

*Senior Software Engineer*

June 2017 - July 2019  
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**

*Software Engineer*

June 2014 - June 2017  
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

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### **University of Warwick, UK**

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)

October 2010 - June 2014

### **University of Warwick, UK**

MMathPhys (2.1), Thesis in Particle Physics

October 2006 - June 2010

### **BASG Milana Hodžu, Sučany, Slovak Republic**

A-level equivalent (AAAABB)

October 2001 - June 2006

## TECHNICAL COMPETENCIES

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### **Systems Programming (Linux & UEFI)**

C (5 years)

### **Test Development and Automation**

Python (7 years), Jenkins (2 years)

### **Version Control**

Git and Mercurial (5 years)

### **Data Analysis**

C++ and ROOT (2 years)

### **Database Design & Administration**

T-SQL, MySQL, mariaDB

## POSITIONS OF RESPONSIBILITY

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|---|---|
| <b>GAUSS Monte Carlo Simulation Group</b><br>Decay Files repository manager | October 2011 - June 2014<br>LHCb Collaboration, CERN        |
| <b>EvtGen Development Group</b><br>Development and technical support        | October 2010 - June 2014<br>University of Warwick, UK       |
| <b>LHCb UK Student Group</b><br>Convener                                    | June 2012 - December 2012<br>LHCb Collaboration, CERN       |
| <b>University of Warwick Computing Society</b><br>Co-President              | February 2007 - January 2009<br>University of Warwick, UK   |
| <b>Warwick Conferences</b><br>Lead Conference Assistant                     | June 2008 - September 2009<br>Warwick Conferences, Coventry |

## OTHER SKILLS

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|----------------------------|---|
| <b>Languages</b>           | Slovak & Czech (Native), English (Bilingual), French (Intermediate) |
| <b>Management Software</b> | JIRA, Bugzilla, Reviewboard, Slack                                  |
| <b>Methodology</b>         | Agile development and Continuous Integration                        |
| <b>Public Speaking</b>     | Experience chairing meetings (up to $\sim 40$ people)               |

## INTERESTS AND HOBBIES

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### 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

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|---|---|
| <b>UEFI Plugfest</b><br>Regular attendee on behalf of Solarflare Communications   | Autumn 2016 - <i>Current</i>                        |
| <b>Charm mixing in <math>D^0 \rightarrow K_S \pi \pi</math> at LHCb</b><br><a href="https://cds.cern.ch/record/2008671?ln=en">https://cds.cern.ch/record/2008671?ln=en</a>  | June 2014<br><i>University of Warwick</i>           |
| <b>Model-independent measurement of mixing parameters in <math>D^0 \rightarrow K_S \pi \pi</math> decays</b><br><a href="http://link.springer.com/article/10.1007%2FJHEP04%282016%29033">http://link.springer.com/article/10.1007%2FJHEP04%282016%29033</a> | April 2016<br><i>Journal of High Energy Physics</i> |
| <b>Charm mixing and CP violation at LHCb</b><br><i>Large Hadron Collider Physics Conference</i>   | May 2013<br><i>Barcelona, Spain</i>                 |
| <b>Measuring charm mixing using a model-independent technique in <math>D^0 \rightarrow K_S h h</math></b><br><i>Institute of Physics HEP Conference</i>   | April 2013<br><i>Liverpool, UK</i>                  |

## REFERENCES

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| <b>Dinan Gunawardena</b><br><i>Director, Xilinx Inc.</i>                             | 2017 - <i>Current</i><br><i>+44 7808 926449, dinan@ieee.com</i>        |
| <b>Robert Stonehouse</b><br><i>Linux Driver Team Lead, Solarflare Communications</i> | June 2014 - June 2019<br><i>+44 7815 068929, rstonehouse@gmail.com</i> |