PETER BURKIMSHER

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TECHNICAL STRENGTHS

Programming Languages	Bash, C, C++, C#, Java, JavaScript, Objective-C, Python
Big Data	ElasticSearch, MatLab, ODBC, SQL, Tensorflow
Cloud platforms	Heroku, Red Hat OpenShift
Embedded	Arduino, ODroid, PQI Air Card, Raspberry Pi, Rockbox, Salea, Verilog
Control systems	LabVIEW, OSC, SCADA (WinCC OA), SECS-II
Network hardware	Cisco, Fortinet, Juniper, HP ProCurve
Virtualisation	BlueStacks, Emscripten, ESXi, QEMU, VMWare Fusion

EXPERIENCE

InfoFab, OSE, Kaohsiung, Taiwan   2014 - 2018
Project Engineer

· Wrote driver software to control microSD card testing equipment (PPLU800, AF8652, TBPP12000)
· Developed a USB keyboard & mouse logger using a Raspberry Pi
· Configured network monitoring dashboards with Icinga and Pandora
· Set up Asterisk PBX systems, VMWare ESXi, and IT support for clients
· Reverse-engineered closed-source DLLs to help colleagues debug APIs

Egoman Technology Corp., China   2013
Intern

· Contract for a Raspberry Pi manufacturer
· Built a database of every university department in China to assist marketing teams
· Built a database of project tutorials, completed projects, and ideas to help communication between departments
· Worked on projects involving battery power, CPLD programming, and software-defined radio

Fisher & Paykel Healthcare, Auckland, New Zealand   2011 - 2012
Algorithms Research

· Wrote a USB driver in C for an artificial lung
· Expanded features of a Windows driver to add OSC and UDP output
· Developed iPhone and web apps to edit Plist settings and display real-time streaming data
· Integrated controller with Pertecs analogue computer, and developed a graphical schematic design tool
· Learned OpenGL for graphing values in real time using Mark Titcheners SpOd
· Wrote thorough documentation about the control system protocol

EDUCATION

Lancaster University, United Kingdom   *2007 - 2011*
MEng Electronic Systems Engineering   First class Honours, IET Prize, Lancaster Award

EXTRACURRICULAR

Native English, intermediate French, and basic Chinese / Japanese / Korean

Submitted 11 unicode characters for Chinese dialects that will be supported in Unicode Version 12.0

Developed Chinese-learning software at http://pingtype.github.io