Lee Morton

Curriculum Vitae

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Profile

I currently work for Renishaw writing software for the Sprint scanning probe used in industrial CNC machines. I am currently seeking employment in Europe in ....say something positive and vague- difficult challenging

My professional passion is solving difficult technical problems in an elegant way....

Languages and Technogies C++, Python (data analysis), Java, Mathematica, C# inc XAML, C (embedded), J2ME, Android, CUDA, XML, Matlab

Experience

2015

Software Engineer, *Renishaw*.

Summary I produce software to support the Sprint scanning probe used in industrial CNC machines. Our software processes data from the probe and can be used for part verification or adaptive machining.

- Implemented customer specific software and proved out complex processes on customer sites.
- Made significant contributions to the development of new technologies and applications.
- Significantly improved the testing of our products and the culture of testing within our team
- Re-implemented several core algorithms to make them faster or more accurate.
- Data analysis
- Have proposed and implemented / shared practices to allow us to work more efficiently.

2011
2015

PhD, *Glasgow Caledonian University*.

Title Inertial Motion Capture for At-Home Rehabilitation

Summary This project covered the design testing and implementation of an inertial motion capture system to be used in at-home rehabilitation applications. My co-researchers were responsible for developing patient facing visualisations, I was responsible for designing, developing and testing all technological aspects of the motion capture system including:

- Radio network protocols (XBee and ANT)
- Embedded software (C, FreeRTOS)
- Desktop configuration and visualisation software (Java, Processing, Python)
- Calibration techniques
- Testing with an optical motion capture system (Mathematica)

2015

Algorithms: Analysis and Design, Part 1, *Stanford*, Online Course.

2015 **Algorithms: Analysis and Design, Part 2**, *Stanford*, Online Course.

2015 **Parallel and Heterogeneous Programming**, *Illinois, Urbana–Champaign*, Online Course.

2012 **Machine Learning**, *Stanford*, Online Course, (98.6%).

2008–2011 **Research Associate**, *Glasgow Caledonian University* .

Summary

- Specialising in human computer interaction in mobile computing applications
- Developing software for research projects
- Carrying out research activities
- Teaching including tutorials and lectures

Projects

- Monitoring physical activity patterns using accelerometers and GPS
- Location aware mobile games
- Supervision of interns sponsored by Orange Research
- Working with primary and secondary schools to develop an interactive guide to the 2014 Glasgow Commonwealth Games
- Custom application commissions from businesses

2008–2009 **PGDip, Advanced Computing**, *Glasgow Caledonian University*.

2008 **Putting Java to Work**, *Open University*.

2008 **CCNA: Cisco Certified Network Associate**, *Open University*.

2007 **Object Oriented Programming with Java**, *Open University*.

2007–2008 **Teacher of Mathematics**, *Stratford Upon Avon High School*.

2005–2007 **Supply Teacher**, *Direct Solutions*.

2004–2005 **Postgraduate Certificate in Education**, *Warwick University*.

1999–2003 **MPhys, Physics**, *Oxford University*.

Major Options Atoms, Lasers and Optics, Solid State Physics

Project Exploring the Feasibility of a Mechanical Amplifier

References

Alex Kane
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Renishaw PLC
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Professor Lynne Baillie
PhD Supervisor
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