Lee Morton

Curriculum Vitae

11 Cambridge Avenue Dursley, Gloucestershire, UK GL11 4AU (a) +44 (0) 7708 218 756 ⋈ leemorton123@gmail.com

Experience



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.

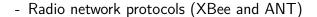
- Implemented customer specific software and proved out complex processes on customer sites.
- Made significant contributions to the development of new technologies and applications.
- Significantly improved the testing of our products and the culture of testing within our team
- Re-implemented several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

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 coresearchers were responsible for developing patient facing visualisations, I was responsible for designing, developing and testing all technological aspects of the motion capture system including:



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



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

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

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

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

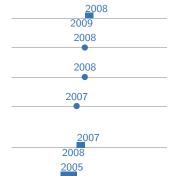
Summary

Research Associate, Glasgow Caledonian University.

- 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



PGDip, Advanced Computing, Glasgow Caledonian University.

Putting Java to Work, Open University.

CCNA: Cisco Certified Network Associate, Open University.

Object Oriented Programming with Java, Open University.

Teacher of Mathematics, Stratford Upon Avon High School.

Supply Teacher, Direct Solutions.

	20	004
200)5	

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

Mearns Castle High School.

Sixth Year Studies Mathematics (A), Physics (A), Chemistry (A)

Scottish Highers Mathematics (A), Physics (A), Chemistry (A), Biology (A), English (A)

Research Interests

EXTRAGALACTIC • Galaxy Evolution

ASTROPHYSICS • Spectral Synthesis Models

Chemical Evolution of the Universe

UV Astrophysics

OTHERS • Astrostatistics

Languages

Portuguese Native

English Fluent Certificate of Proficiency in English

University of Michigan

French Fluent Diplôme Approfondi de Langue Française (DALF)

Centre International d'Études Pédagogiques

Spanish Basic Fluency Good Understanding, Medium Speaking, Basic Writing

German Basic Fluency Good Understanding, Medium Speaking, Basic Writing

Skills

Programming Python, R, SQL Databases, LATEX

Program Version Control and Program Tools GitHub, PyCharm, BitBucket

Repositories.

Other Skills Communication, Organization, Writing, Translation

References

Paula R. T. Coelho

Professor Astronomy Dept., IAG-USP

São Paulo, Brazil □ pcoelho@usp.br

☎ +55 11 3091 2727

Rafael S. de Souza

Post-Doctoral Researcher Eötvös Loránd University Budapest - Hungary

□ rafael@caesar.elte.hu

1999