HORIA ALEXANDRU MAIOR

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EDUCATION

University of Nottingham, UK   *2012-2016*
PhD Candidate at the Mixed Reality Lab & Computer Science
Cross-Discipline Research with Horizon Digital Economy - Centre for Doctoral Training
Thesis:*"The physiological measure and feedback of workload using fNIRS"*

Swansea University, UK   *June 2012*
B.Sc. in Computer Science
Dissertation: Modelling and Simulation of Railways *"Safe Trains - a CSP Approach"*
Award: First class honours degree

WORK EXPERIENCE

RatedDoctor.com   Feb 2015 - present
Chief Technology Officer   *Nottingham*

· `www.rateddoctor.com` (MVP Release Date 1st of May 2016)
· Online platform to bring patients and specialists doctors together.
· *This work involved working and coordinating a small team in various ways. Responsibilities varied from determining a scope for the project and developing requirements - working closely with the CEO's - to project management - working closely with the designers and development team.*

AMPsuite LTD   Sep 2014 - June 2015
Web developer   *Nottingham*

· Building web-based software tools for Records Label companies across the globe.
· Client-focused, understand client needs, building requirements and implement solutions working closely with the CTO.
· Front end, back end - PHP, JavaScript, MySQL, html5.

Supervision   2014-2016

· 3rd Year Project Supervision - "Evaluating Mental Workload through Psychophysiological Measurements using a Sensory Device".
· Masters Student - HCI Prize for the BEST MASTERS DISSERTATION - "Using fNIRS in Usability Testing: Understanding the Effect of Web Form Layout on Mental Workload".
· *This type of work involved playing the role of a project coordinator for two students (a final year undergraduate and a master student), providing them with guidance and advice, as well as assessing their work at the end of the project.*

Lecturing   2015
Lectures   *University of Nottingham*

· G54MXR Mixed Reality, Lecture: Brain Computer Interfaces for Human Computer Interaction
· G51FSE Introduction to Software Engineering
· *This work involved lecturing and interacting with over 150 students a class.*

Teaching Assistant | Sep 2013 - present
Teaching Assistant | *University of Nottingham*

· G51FSE Introduction to Software Engineering (Java, Object Oriented Programming) (2015-2016)
· G54PRG Programming, University of Nottingham (C/C++)
· G51CSA Computer Systems Architecture (ARM Assembly Language)
· G51FSE Introduction to Software Engineering (2014-2015) *The role of teaching assistant required preparation and help giving during labs and tutorials. This was delivered both to groups as well as on individual basis to students.s*

IIIT-Bangalore and Horizon Digital Economy Research Hub | Jan 2014 - May 2014
Research Intern | *Electronic City, Bangalore, India*

· Digital Economy Research based in Bangalore, India.
· Project: The INTERNET of THINGS and the Smart Grid.
· Publication: **Maior, H. A**. and Rao, S. *"A Self-Governing, Decentralized, Extensible Internet of Things To Share Electrical Power Efficiently. In IEEE CASE 2014"*

Invensys Rail and Swansea University | June 2011 - Sep 2011
Research Intern | *Swansea, UK*

· Modelling Railways Safety using formal language CSP (communicating sequential processes)
· Time simulating capacity of Railways using formal language Timed CSP.

Amazon.co.uk | June 2010 - June 2012
Warehouse Problem Solver | *Swansea*

· Find and correct mistakes in the system.
· Roam the warehouse with a laptop on wheels and offer feedback on how to do things better.

TECHNICAL STRENGTHS

Computer Languages	Java, JavaScript, AngularJS, PHP, C#, C/C++, MySQL etc
Programming environments	Visual Studio, NetBeans, Eclipse, Webstorm, PHPStorm
Professional Software	Latex Document Writing, Statistics SPSS, Adobe Illustrator
Hardware	EEG, fNIRS Brain Scanner, Arduino, Raspberry Pi

AWARDS, HONOURS AND GRANTS

September 2015

Postgraduate Ingenuity Prize for BEST New Business Idea

· £6000 prize.
· Co-Founded a Community Interest Company looking at developing technology for children with long term medical conditions.

2012 - present

Programming Coach, Contestant, Organizer

· ACM-ICPC Coach at NWERC 2015 - Linkping, Sweden - http://www.nwerc.eu/
· ACM-ICPC Site Director at UKIEPC2015 - Nottingham, UK - http://ukiepc.info/
· ACM-ICPC Coach at NWERC 2013 - Delft, Netherlands - http://2013.nwerc.eu/
· Contestant at the 2012 ACM ICPC - NWERC in Bremen, Germany - http://2012.nwerc.eu/