

Yousef Amar

Curriculum Vitae

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Profile

As an MEng graduate in Computer Systems Engineering with Business Management, my skills are multi-faceted. With strengths in hardware design, low to high-level programming, and every layer of web development, but also project management and business administration, I am a jack of all trades.

I am currently a PhD student at QMUL with a focus on Personal Data, Human-Data Interaction, Privacy, and Networks under Dr Hamed Haddadi at the Department of Electronic Engineering and Computer Science.

For more information and to see past projects and work in more detail, please visit [my website](#) or [my LinkedIn profile](#).

Education

2016–present **PhD in Electronic Engineering and Computer Science**, *Queen Mary University of London*, London, U.K.

2010–2014 **Master of Engineering**, *The University of Birmingham*, Birmingham, U.K.
First Class Honours

Project Work:

4th Year MEng Final Year Project

Design and implementation of a low-cost UAV sensor system for constructing object and topographical 3D models in real-time.

3rd Year MEng Group Project

Building a quadcopter that can autonomously transport a payload from the roof of the EECE building to an arbitrary target.

Societies:

- ◇ Electronic, Electrical & Computer Engineering Society
- ◇ Birmingham Enterprise and Entrepreneur's Society (BEES)
- ◇ Games Development Society
- ◇ Investment Society

Other relevant modules:

- ◇ Data Mining
- ◇ Computer Vision
- ◇ Computer Networking
- ◇ Computer Hardware and Digital Design
- ◇ Digital Systems and Embedded Computing
- ◇ Digital Logic and Microprocessor Systems
- ◇ Object Oriented Software Design
- ◇ Computer Systems, Algorithms and Data Structures
- ◇ C Programming and Algorithmic Problem Solving
- ◇ Project Management and Professional Practice
- ◇ Advanced Interactive 3D Design for Virtual Environments and Serious Games

2010 **European Baccalaureate**, *European School Frankfurt*, Frankfurt, Germany

Experience

Research

- May 2017 – **Research Intern**, *Nokia Bell Labs Stuttgart*, Stuttgart, Germany
Aug 2017 Research in distributed function scheduling and dynamic load balancing for minimising latency in the context of serverless computing
- Oct 2014 – **Research Intern**, *The University of Oxford*, Oxford, U.K.
Jan 2016 Research in multi-camera rig calibration, multimodal scene reconstruction, machine learning, and HRI, while attending doctoral training program lectures

Vocational

- Sept 2010 – **Programming Tutor**, *Self-employed*, Birmingham, U.K.
June 2014 Personal tutor to 16 students
- Nov 2011 **Teacher Assistant**, *The University of Birmingham*, Birmingham, U.K.
Teaching and supervision of sixth form students
- May – Sept 2008 **Shop Floor Worker**, *Aquila Aviation AG*, Berlin, Germany
Construction and assembly of fibre composite plane parts

Miscellaneous

- ◇ Student Representative of the Department of Electronic, Electrical and Computer Engineering for 2 consecutive years. Student Rep Chair for 1 year.
- ◇ Peer Assisted Study Sessions (PASS) Leader; tutoring first year students.
- ◇ Ambassador for the University of Birmingham on a cultural exchange program in China for future direct-entry students.
- ◇ EECE Green Impact project assistant for 2 years and sole student delegate.
- ◇ Certification of completion of Birmingham Start-Up Masterclasses 2013

Skills

Programming/ Scripting	Java	Python	C	C++	C#	HTML5+CSS3+JS
	PHP+SQL	VHDL	GLSL	MatLab	Bash	CUPL Assembly
Software and APIs	OpenGL	OpenCV	OpenCL	OpenMP	CUDA	SSE Programming
	LaTeX	Doxygen	Node.js	LiveScript	MongoDB	MS Office (incl. Visio)
	Cordova	WebGL	WebSocket	Unity3D	Blender	Git, Hg, SVN
	GIMP	IBM z/OS mainframe (CICS, WebSphere MQ, JCL)				
Spoken Language	English (fluent)		German (fluent)		Arabic (fluent)	
	Italian (4yrs)		Mandarin (1yr)			
Other	◇ Extensive experience in teamwork with people from any background face-to-face or online and achieved the PSA Advanced award through volunteering work and attending regular lectures, workshops, and networking events for soft skills and insights on the industrial environment.					
	◇ Ability to perform extended research and write up detailed scientific reports as well as literary essays, due to the nature of my degree and my participation in the annual European School Science Symposium several times.					
	◇ Confidence in public speaking and dealing with large numbers of people thanks to participating in multiple public speaking events, presented projects in front of hundreds for evaluation, and actively campaigning for a position as school council president, but also by acting as the major protagonists in 3 Shakespearean plays out of 4 starred in.					
	◇ Ability to work efficiently under heavy time pressure as is evident through amassing a large fanbase writing video game mods and extensions who expect updates for all software to be released mere days after major official game updates in conjunction with winning several programming contests (e.g. IBM, SMAC) with tight deadlines.					

Publications

- 2016 Personal Data Management with the Databox: What's Inside the Box? In *Proceedings of the 2016 ACM Workshop on Cloud-Assisted Networking* (pp. 49-54). ACM.
- 2016 Privacy-Aware Infrastructure for Managing Personal Data. In *Proceedings of the 2016 conference on ACM SIGCOMM 2016 Conference* (pp. 571-572). ACM.
- 2015 Incremental dense multi-modal 3d scene reconstruction. In *Intelligent Robots and Systems (IROS), 2015 IEEE/RSJ International Conference on* (pp. 908-915). IEEE.

Awards

- 2017 EuroSys 2017 Travel Grant
- 2017 IEEE Circuit Building Competition winner
- 2016 SIGCOMM 2016 Travel Grant
- 2014 AP Jarvis Prize
- 2014 Personal Skills Award (Advanced)
- 2014 Peer Assisted Study Sessions scheme PASS Leader of the Year award
- 2014 University of Birmingham Student Mobile App Competition (SMAC) winner
- 2013 IBM Mainframe Challenge 2012 winner
- 2009-2013 University of Birmingham First Class Excellence Scholarship

Referees

Dr Hamed Haddadi

Lecturer (Assistant Professor) in Digital Media

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Professor Philip H. S. Torr

Fellow St Catherine's College

Royal Society Wolfson Merit Award Holder

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Professor Robert J. Stone

Chair in Interactive Multimedia Systems

Director, Human Interface Technologies Team

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Further available upon request.