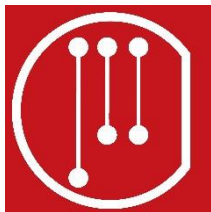







PERSONAL INFORMATION

Ali Mosayyebi



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 www.mosayyebi.co.uk
 Skype alimosayyebi

Profile

I have been doing my research in “**Design, fabrication and characterisation of microfluidic devices, waveguides and ring resonators, and microstructures in cleanroom of the class of 1000 and 100**” at “Optoelectronics Research Centre (ORC), Southampton” since September 2011. Currently, I am working on developing a **microfluidic device** in studying the mechanisms of Ureteral Stents. I am looking for opportunities to work on projects related to **design, fabrication and characterisation of MicroWano-devices and more specifically micro/nano-fluids**.

WORK EXPERIENCE

06/2014–Present

Researcher

Faculty of Engineering and the Environment, University of Southampton, Southampton, (United Kingdom)

Research on mechanisms of Ureteral Stents and their failures

07/2013–10/2013

Researcher in Integrated Devices

Optoelectronics Research Center (ORC), University of Southampton, Southampton, (United Kingdom)

Fabricating waveguides and ring resonators using photolithography and ion-exchange technique and characterising them for enhancing Raman signals

10/2007–10/2009

Material purchasing consultant, part-time and summer full-time

Rah Aran Eng. Ltd., Tehran (Iran)

- Assessment of suppliers quality assurance (SQA)
- Supply chain management system for material suppliers

09/2005–09/2007

Internal manager of network and computer system, part-time and summer full-time

Rah Aran Engineering Ltd. & Garma Felez Engineering Ltd., Tehran (Iran)

- Successfully managed an internal IT network installation project on time, in budget and high performance

EDUCATION AND TRAINING

09/2011–07/2013

Master of Science in Microelectronics System Design

EQF level 7

University of Southampton, Southampton, (United Kingdom)

- Design, Fabrication and characterisation of Microfluidic Mixers using rapid prototype technique and PDMS (in Optoelectronics Research Centre “ORC”) [Thesis GPA: 3.5 out of 4]
- Collaboration in establishing a new technique for rapid prototype of microstructures

- Collaboration in designing a Microprocessor.
- Printing and testing a MEMS Actuator.
- Attended the “Photonic Materials” course taught by Dr Senthil Ganapathy (ORC)

09/2005–08/2010 **Bachelor degree in Solid State Physics**

EQF level 6

University of Mazandaran, Babolsar (Iran)

- Producing Nano Copper particle using Electrogravimetry Synthesis.
- 146 credits of courses have been passed with GPA of [14.27 out of 20]
- Last 60 credits(the last two years) of the BSc with GPA of [15.84 out of 20]

PERSONAL SKILLS

Mother tongue(s) Persian, Azerbaijani

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
TOEFL (PBT), was provided in 2011 for MSc degree in the UK (657) Received MSc from the University of Southampton, UK, in 2013 Worked in the UK academic institute as a researcher since 2013					
Turkish	C1	B1	C2	C1	B1
Lived in Turkey for about 1 year I have been in touch with Turkish native speakers during my stay in Southampton, UK					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Job-related skills

- Reactive Ion Etching (OPT Plasma lab 80 Plus Reactive Ion Etcher by OXFORD Instrument)
- Coherent scanning interferometry (Zescope by Zygo)
- Laser Scanning Confocal Microscope (by ZEISS)
- Scanning electron microscope (Zeiss Evo50 SEM fitted with an Oxford Instruments INCA 250 x-ray analysis system)
- Dip Pen Nanolithography (DPN 5000 by NanoInk)
- Optical Microscope (Nikon Eclipse Series)
- Lapping and Polishing
- Ion exchange (Istron 600°C ion-exchange furnaces)
- Photolithography (using Karl-Suss M46 double-sided mask aligner)
- Electron beam deposition (Edward Auto 500 electron beam evaporator)
- 3D Printing (Objet350 Connex)
- Spectrophotometer (PerkinElmer)
- Acid Cleaning Bench
- Wet and Solvent Bench

Computer skills

- Autodesk Inventor (+75%)
- SolidWorks (+50%)
- L-Edit (+75%)
- Blender (50%)
- MATLAB (50%)

- Maple & FORTRAN (+25%)
- COMSOL (+25%)
- System Verilog (25%)
- Magic VLSI Layout (+25%)
- Lab View (25%)
- SimeVision (25%)
- LTSpice and Pspice (25%)
- Google Sketchup (50%)

Other skills

- London School of Commerce, London, UK, MBA (09/2013-06/2014)
 - Information Technology and Management Information Systems
 - Business Environment
 - Accounting and Decision Making Techniques
 - Marketing Management
- Registered to “**The Register of Exercise Professionals (REPS)**”
Taking courses, studying materials provided to get the following diplomas:
 - *Level 2: Certificate in Fitness Instruction (Gym) ==> Done*
 - *Applying the Principle of Nutrition to a Physical Activity Program ==> Going On*
 - *Level 3: Certificate in Personal Training ==> Going On*
 - *Circuit Instructor ==> Going On*
 - *Group Indoor Cycling Instructor ==> Going On*
 - *Business and Marketing for the Fitness Professional ==> Going On*
 - *Exercise Referral for Specific Controlled Conditions ==> Going On*
 - *Exercise Programming or Sports Conditioning ==> Going On*
- Advanced level Taekwondo Player since 2007 (University of Southampton Taekwondo team Member)
- Designing websites for different purposes; Some samples of his recent works are as follow:
 - [Delta Nutrition and Fitness \(www.deltanf.com\)](http://www.deltanf.com)
 - [Persian Paradise Restaurant \(www.persianparadisesouthampton.com\)](http://www.persianparadisesouthampton.com)
 - [University of Southampton Persian Society \(USPS\) \(http://www.southampton.ac.uk/~persian/\)](http://www.southampton.ac.uk/~persian/)
 - [Domestics Cleaning Company called MaxyDomestics \(www.MaxyDomestics.co.uk\)](http://www.MaxyDomestics.co.uk)
- Previous coordinator (Liaison) and current secretary of [Persian Society at the University of Southampton](#)

Driving licence B1, B

ADDITIONAL INFORMATION**Publications**

Ali is currently working on two papers:

- **The new technique on the design, fabrication and characterisation of microfluidic devices**
- **A review paper on the area of his current research, which is Ureteral Stents**
- **Studying Fluid dynamics behaviour of Ureteral Stents**

Previous Publications:

C.L.Sones, I.N.Katis, P.He, B.Mills, **A.Mosayyebi**, J.Butement, M.Feinäugle, R.W.Eason

Laser-based printing and patterning for biological applications

International Workshop on the Fabrication and Application of Microstructured Optical Devices Keio University, Hiyoshi Campus, Yokohama, Japan 27-28 Feb 2014 (Invited) [\[Link\]](#)

C.L.Sones, I.N.Katis, B.Mills, M.Feinäugle, **A.Mosayyebi**, J.Butement, R.W.Eason

Rapid and mask-less laser-processing technique for the fabrication of microstructures in polydimethylsiloxane

Applied Surface Science 2014 Vol.298 pp.125–129 [\[Link\]](#)

A.Mosayyebi, A.Karabchevsky, J.S.Wilkinson

Nanoparticle-enhanced chemiluminescence in micro-flow injection analysis

6th Mediterranean Conference on Nano-Photonics (MediNano-6) Lyon France 30-31 Oct 2013 [\[Link\]](#)

C.L.Sones, I.N.Katis, B.Mills, M.Feinäugle, **A.Mosayyebi**, J.Butement, R.W.Eason

Rapid low-cost patterning of microstructures in polydimethylsiloxane via mask-less laser-machining

CLEO/Europe-IQEC 2013 Munich 12-16 May 2013 CM-P.25 (Poster) [\[Link\]](#)

C.L.Sones, I.N.Katis, B.Mills, M.Feinäugle, **A.Mosayyebi**, J.Butement, R.W.Eason

Mask-less laser-machining for rapid low-cost patterning of microstructures in polydimethylsiloxane (PDMS)

E-MRS '13 Materials Research Society Spring Meeting Strasbourg 27-31 May 2013 [\[Link\]](#)