

Sasan Bahrami

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RESEARCH INTEREST

Human Computer Interaction, Interaction Design, GUI, Tangible User Interface, Biology, Bio-Inspired robotics, Soft Robotics, Augmented/Virtual/Mixed Reality, Affective Computing, Digital Fabrication

EDUCATION

Master of Technology, Information Technology, School of Computing and Technology, **Eastern Mediterranean University**, Cyprus
CGPA 3.59/4.00

Sep 2010 ~
Jun 2012

Bachelor of Science, Information Technology, School of Computing and Technology, **Eastern Mediterranean University**, Cyprus
CGPA 3.46/4.00

Feb 2006
~Sep 2009

COURSEWORK

Human Computer Interaction, (Coursera) *Stanford University/UCSD*

2014

BioHack Academy (BHA2) *Waag Society* (Amsterdam)

2015

Machine Learning, (Coursera) *Stanford University*

2014

College Writing (eDx) *University of California Berkeley*

2014

Learning Creative Learning 2 (P2PU), *Massachusetts Institution of Technology*, MIT Media Lab

2014

Big Data and Social Physics (eDx) *Massachusetts Institution of Technology* (MIT Media Lab)

2014

Design of Everyday Objects, (UdaCity) *Don Norman*

2014

Design Creation of Artifacts in Society (Coursera), <i>University of Pennsylvania</i>	2015
Fabrication (FabLab) <i>University of Tehran</i>	2014
Interaction Design (Unity3D), <i>University of Tehran</i>	2014
Music Production, <i>Berklee College of Music</i>	2013
Developing your Musicianship, <i>Berklee College of Music</i>	2013
Songwriting, <i>Berklee College of Music</i>	2013
Vocal Recording, <i>Berklee College of Music</i>	2013
Music Business <i>Berklee College of Music</i>	2013
Proposal Writing, <i>IranDoc</i>	2013
ISI Writing (SCI Journal's Article Writings), <i>IranDoc</i>	2013
Cisco Academy (CCNA), <i>Eastern Mediterranean University</i>	2012

RESEARCH EXPERIENCE

<i>Master Thesis Research</i>	
Human Computer Interaction Analysis on Learning Management Systems (LMS): Study case ATutor led by Asst.Prof.Dr.Ersun Iscioglu, Eastern Mediterranean University (Cyprus)	Mar 2012 ~ Jun 2012
<ul style="list-style-type: none"> Analysis on e-Learning systems LMS on how they function in the Interfaces, GUI, Layout and their Interaction 	
<i>BioFactory, BioHack</i>	
Waag Society (Amsterdam), Tehran University (Tehran, Amsterdam)	
<ul style="list-style-type: none"> In this research project we have made our best effort to create open source Bio Lab, which equipped with Biolab equipment and start Bio projects in that lab, some of the devices we have made include: magnetic stirrer, sterile hood, Syringe Pump, Peristaltic Pump, Centrifuge (Bio Centrifuge), Incubator and etc, Of the project we have done was growing different bacteria, Cultivating and Isolating Microbes (like leaf, Mycelium, MG, etc.), make electricity out of nutrient soil, water 	2015

cleaning Bio Reactor with Algae, and Designing Microfluidics Chip,

- The Biohack academy itself contains more than just one project itself that could be explained as one research project.

Microfluidic Chips fabrication (Towards different approaches of Microfluidic chips fabrication)

2015

Waag Society (Amsterdam) Tehran University (Tehran, Amsterdam)

- Proposed different approaches of Microfluidics chip fabrication other than typical PDMS, the alternatives are both low cost and easy to fabricate, Among ordinary methodologies, fabrication of PlexiGlass with Laser Cutter, molding with Agar and molded Silicone Oil with Laser cut PlexiGlass mask have been observed and also fully designed chip with PlexiGlass and Ethanol bonding and finally two sided silicone with Plexiglas covers has been tested. 2015

Fablab

Digital Fabrication for Oriental Design, *Tehran University*

Sep 2014

- Toward different approaches for fabricating Oriental Geodesic Dome with the usage of Generative Algorithm This project include, research in theory and practice, both soft and hard, and include research for proper materials, proper algorithms, and proper implementation techniques which in this case molding and casting have been utilized 2014

Independent Research

Tangible User Interface, Transform Audio/Voice to Motion Physical Spectrum Analyzer, toward Integration of Digital Bits and Physical Atoms, Using Q transform in Audio Signal Processing

Feb 2015~
Aug 2015

- Methods: Pure Data Programming, Audio Signal Processing, Q Constant
- Theory: Digital Bits and Physical Atoms and Seamless Integration, Tangible User Interface
- Techniques Used: Pure Data, Q Transform Point,

- Microcontroller AVR, Programming AVR, SSC32
- Digital Fabrication: Laser cutter, metal cutter, wood work

Independent Research

Graphical User Interface and Graphic Design and Layout of ATutor LCMS led by Asst.Prof.Dr.Ersun Iscioglu, Eastern Mediterranean University (Cyprus and Iran)

Jul 2012 ~
Oct 2012

- Analysis on LCMS ATutor on how it functions in terms of Interactivity, GUI, Graphic Design and Layout (Published in International Association of Technology, Education and Development in 2012, ICERI 2012)

IT Project Management Failures and Success Case Study: IT Department graduation project management Led by Asoc.Prof.Dr.Mustafa Ilkan, Eastern Mediterranean University (Cyprus)

Feb 2011~
Jun 2011

- Assess the failures and success rate of IT project that is related to Students Graduation projects and suggest the best criteria for success.

Process of Sharable Content Object Reference Model, led by Asst.Prof.Dr.Ersun Iscioglu, Eastern Mediterranean University (Cyprus)

Sep2011~
Dec2012

- Evaluation and assessment of SCORM, how they operate and its usability

HONORS AND AWARDS

Iran National Elite's Foundation, Selected Graduate of BCs and Master level, Project *Researcher and Scientist*

2014~15

Eastern Mediterranean University *International Scholarship: 2 year Scholarship for Graduate Study* from Eastern Mediterranean University
Foundation Covers tuition fee

Sep 2010 ~
Jun 2012

Uppsala University (Sweden's rank 1 university), Admission of HCI for master with full tuition fee scholarship, In selection group of 4 acceptance in the pool of 500-1000 applicant

2009

Eastern Mediterranean University <i>High Honor Student,</i> Part of tuition have been covered	2005~ 2006spring
Eastern Mediterranean University <i>High Honor Student</i> Part of tuition have been covered	2006 ~ 2007 fall
Eastern Mediterranean University <i>Honor Student</i>	2007 ~ 2008 fall
Eastern Mediterranean University <i>High Honor Student</i> Part of tuition have been covered	2008 ~ 2009 Fall
Eastern Mediterranean University <i>Honor Student</i>	2008 ~ 2009spring

PAPERS

Bahrani, S. (2015) Physical Spectrum Analyzer, toward Integration of Digital Bits and Physical Atoms, Using Q transform in Audio Signal Processing, (Work In Progress/Unhold)	2015
Bahrani, S. (2015). Conceptual Graphic Design and Interaction Design of Learning Management System ATutor. <i>Indian Journal of Science and Technology</i> , 8(3), 263-269.	Mar, 2015
Iscioglu, E., & Bahrani, S. (2012). GRAPHICAL USER INTERFACE AND GRAPHIC DESIGN AND LAYOUT OF ATUTOR LCMS. <i>ICERI2012 Proceedings</i> , 3121-3127.	Nov, 2012
Bahrani S., (2012) HCI ANALYSIS ON LMS/ATUTOR, Master Thesis, <i>School of Computing and Technology, Eastern Mediterranean University</i>	June 2012
Bahrani S., Gharagozlou A., Yazdi H., Daguul E., Faisal A., (2009). SHEFA HOSPITAL (Interactive Hospital System), BSc Thesis, <i>School of Computing and Technology, Eastern Mediterranean University</i>	July 2009

EXHIBITION

Eastern Mediterranean University, Art and Science Studio
Museum, Photography Exhibition on Landscape, Portrait,
Object

Dec 2008

WORK EXPERIENCE

ETKA Chain Store Mobile(IOS) app (development and UI/UX
plus design and analysis)

2015

Etka is like iranian walmart like chain store with more than 370
physical stores in Iran, and I have honor to develop the IOS app (for
GIS and CRM services) with Swift language for them as well as
designing UI/UX and part of system analysis and design, their
expected users after app launch would be around 80 000 to 10
Million users 2015

Internship

Interaction and Interface designer

Talia Telecommunication Co., IT department (Iran)

Feb 2008 ~
Apr2008

- Design Interactive Interfaces on data warehouse of the
company besides the Designing of GUI and Layout for
internal portal in addition to designing databases for internal
records of labors and meetings

Independent Projects

Jun 2008

Eastern Mediterranean University (Cyprus)

- Trailer for EMU Graduation Ceremony
- Visual FX and Motion Graphic work

faciliTASTE (CEO/Startup/Iran)

2014

Educational Technology, Hardware and Software integrated
system with the purpose of collaborative learning based on,
4Ps (Passion, Play, Project, Peers) defined in Creative
Learning (By MIT's Lifelong Kindergarten Group)

SKILLS

Programming Languages: C, C++, C#, Java, Swift (1.2 and 2), Python, Asp, Asp.NET, VB.NET, PHP, HTML, XML, JavaScript, AJAX, Joomla, Delphi, Bash Programming, Flash Action Script, HTML, Octave, CSS , Machine Language, ProLog, System Programming,

Frameworks and Libraries: Open Frameworks, OpenCV, Processing, Arduino, OpenGL, Grasshopper

Real-Time and Live Programming: **PureData, VVVV**

Fabrication: Rhino/Grasshopper, Laser Cut, 3D Print, CNC Milling, Mold and Cast, etc.

Related Softtools: Rhino/Grasshopper, AutoCad, Sketchup, OpensCAD, InkSpace, Cura

Electronics: PCB Design, Microcontrollers AVR and ARM, Arduino,

Related Softtools: CAD Soft Eagle, Fritzing, 123DCircuit, Every Circuit, HSpice, LabView, Matlab

Industrial Design: User needs, UxD, Product Sketching, Foam Modeling for rapid Prototyping

Related Softtools: 3DsMax, Autodesk Inventor

Interaction, User Experience and User Interface Design

Skills: Usability Design, User-Centered Design, User Interface Design, User Experience Design, Need Finding, Storyboarding (with star schema), Sketching, Wireframe Using Balsamiq mockup, 360 Degree Feedback, Heuristic Evaluation, Visual Design and Information Design, Rapid Prototyping optimized for Web and Mobile (Using Webflow, Justinmind and Marvel and etc.,)

Database: Oracle, SQL Server, MS SQL, MySQL, Administration, Design and Programming, SQL server Business Intelligence (For Data Warehouse)

Applications: Autodesk Maya, Autodesk 3D Max, Blender, Cinema4D, Adobe Flash, Adobe Premier, Adobe Photoshop, Adobe after FX, Adobe Encore, Adobe Audition, Adobe Captivate, Sony Vegas Pro, Sony DVD Architecture, Edius, Apple Final Cut, Apple Logic Pro, Ableton Live, Cubase, Propellerhead Reason , Sound Forge, Wave Lab, Unity 3D,

Resolume Avenue, NI Traktor, Toon Boom etc.

Other technical skills: Cisco Routing Protocols, Cisco Switching, Secure CRT, VMware, UML, CPN Tools, Network Cryptography, ATutor, MS Project Manager, MS Visio, Microsoft Office, Arduino, Unity Engine,

EXTRA-CURRICULAR ACTIVITIES

Cisco Networking Academy (Cyprus) Cisco Certified Network Associate Training	Sep 2011 ~ Jun 2012
Music Composition Professional Training, Alegro School, Music Teaching Department, Eastern Mediterranean University (Cyprus)	Sep 2008 ~ Jun 2009
Professional Photography of Landscape, Portraits and Objects	2008 ~ Present
Motion Graphic Designer, Video Post-Production, EMU Radio and Television Station at Eastern Mediterranean University	2008 summer
Microsoft Silverlight seminar and intensive course participant in Eastern Mediterranean University	2008Fall
GIS intensive seminar and course participant in Eastern Mediterranean Univeristy	2008Spring
MicroSystem (Iran) Professional Movie Post-Production Training	Sep 2005 ~ Nov 2005
Professional Training in 3D animation with private tutor (Iran) Hooman Agari as Tutor	Sep 2005 ~ Nov 2005
Professional Music Training under consideration of private tutors (Iran) Levik Yeremian, Ali Dimej, Arash Rahnamun and etc. as Tutors	1999 ~ 2009
Sepid Negar Studio (Iran) DOS, OS and Photoshop Training	Sep 1998 ~ Jun 1999

**LANGUAGE
PROFICIENCY**

Native Persian
Fluent English
Intermediate French
Intermediate Turkish
Basic German

REFEREES

Assoc. Prof. Dr. Mustafa Ilkan, Department's dean, School of Computing and Technology, Eastern Mediterranean University, North Cyprus

Assoc. Prof. Dr. Ersun Isciouglu, Supervisor, Department Chair, Department of Education, Eastern Mediterranean University, North Cyprus

Assoc. Prof. Dr. Ali Hakan ULUSOY, Senior Lecturer and Instructor, School of Computing and Technology, Eastern Mediterranean University, North Cyprus

Asst. Prof. Dr. Nazife Dimililer, Senior Lecturer and Instructor, School of Computing and Technology, Eastern Mediterranean University

Assoc. Prof. Dr. Ahmet Rizer, Coordinator and Senior Lecturer, School of Computing and Technology, Eastern Mediterranean University