

SEYED MOSTAFA HEJAZI

23 Cloth Halls, Spinning Acres Lane, Far Headingley – Leeds – UK

Tel: +44 (7988) 214 194 • Email: semhejazi@gmail.com • Skype: semhejazi

KEY SKILLS

- | | | |
|-------------------------------|-----------------------------|-------------------------|
| ✓ Software development | ✓ Computer vision | ✓ Industrial automation |
| ✓ Object oriented programming | ✓ Signal / image processing | ✓ PLC programming |
| ✓ C# | ✓ Medical image analysis | ✓ HMI programming |
| ✓ ASP.NET | ✓ MATLAB | ✓ Hardware design |
| ✓ SQL | ✓ Data analysis | ✓ Embedded systems |
| ✓ JavaScript | ✓ Python | |
| ✓ C / C++ | ✓ Machine learning | |

INTERPERSONAL SKILLS

- | | | |
|-------------------|----------------------|---------------------------|
| ✓ Leadership | ✓ Integrity | ✓ Team work |
| ✓ Time management | ✓ Effective planning | ✓ Receptive to challenges |

PROFESSIONAL EXPERIENCES

Data Scientist - Collaboration

Sheffield, UK

Center for Computational Imaging & Simulation Technologies in Biomedicine (CISTIB) Oct. 2017–Jan. 2018

Projects:

- Population-specific virtual treatment of intracranial aneurysms;
 - Training statistical models on spaces populated with morphological characteristics of intracranial aneurysms. Programming language: MATLAB;
 - Aneurysm surface modelling using in-house tools and python-wrapped VTK scripts.
- Modelling the effect of exercise on aneurysmal flow;
 - Post-processing of the results using python-wrapped VTK filters, and data analysis.

Data Analyst

Ahwaz, Iran

Pardazeshgar Khuezeestan Company, Ahwaz, Iran

2014 – 2016

Responsibilities:

- Provide support on database querying, population and reporting, using structured query language (SQL);
- Generate data releases following study protocol requirements and service reports (Tableau);
- Advice internal team members and external clients on study database(s) content;
- Engage in building and maintaining data dictionaries and system technical documentation;
- Undertake quality checks to assure high standards of data and code;
- Contribute to data analyses as required for research projects.

Full stack software developer

Ahwaz, Iran

Pardazeshgar Khuezeestan Company, Ahwaz, Iran

2011 – 2014

Responsibilities:

- Contributing to the analysis, development, build and testing of working software required by the product owner;
- Leading analysis tasks which contribute to the delivery of working software required by the product owner;
- Collaborate with technical leads on the overall architecture, design and development of core projects;
- Working with colleagues from other agile teams and shared service teams to both communicate and accept dependencies;
- Supporting other team members to improve their software development skills.

Electrical & automation engineer

Ahwaz, Iran

Iran National Steel Industrial Group (INSIG)

2009 – 2011

Responsibilities:

- Involvement in Design & Development of new Control Systems;
- PLC / HMI Programming - Siemens;
- Implementation of Control & Software Systems & Associated Equipment;
- Support continued improvement and Maintain Control Systems - including PLC's & HMI's;
- Upgrading of Existing Equipment & Integration with new Automation / Controls;
- Development of Functional, Detailed and Software Design Specifications from User Requirement Specifications;
- Carry out Factory Acceptance testing, Site Acceptance testing & on-site commissioning;
- Working to agreed timescales & tight deadlines;

Individual projects:

- Redesign furnace kick-off jack system;
- Redesign weighing system in order to lower the cost, simplicity and speed;
- Optimization of monitoring system for faster recovery and less maintenance time;
- Analysis, design and developing software for orders, purchases & warehouse.

Intern

Ahwaz, Iran

National Iranian South Oil Company (NISOC)

Summer 2007

Compiled an extensive report of NISOC activities;

Participated in field jobs in production engineering and oil well maintenance.

EDUCATIONAL RECORD

M.Sc. in Electronics engineering

Sheffield, UK

The University of Sheffield

2016 – 2017

- Phase analysis for motion description in video;
 - Computer vision;
 - Machine learning;
 - Data analysis;
 - MATLAB.
- Design and implementation of Advanced Encryption Standard (AES);
 - Hardware design;
 - VHDL, Xilinx.

M.Sc. in Electronics engineering

Ahwaz, Iran

Shahid Chamran University of Ahwaz

2012 – 2015

- Optimization of digital decimation filter for quadrature sigma-delta data converters;
 - Signal processing;
 - Optimization techniques;
 - MATLAB.

B.Sc. in Electronics engineering

Ahwaz, Iran

Shahid Chamran University of Ahwaz

2004 – 2009

- Design and implementation of a micro PLC;
 - Industrial automation;
 - Embedded systems;
 - Board design;
 - C, C++, VB programming.

HONORS AND AWARDS

- Ranked in the **top 5%** of the nationwide university entrance exam, 2004;
- **Won** the 2nd award in INSIG's annual Quality Improvement Competition, 2010;
- **Won** the 2nd award in INSIG's annual Quality Improvement Competition, 2011.

COMPUTER SKILLS

Software development (back end): C#, ASP.NET, MS SQL server, LINQ, Python;

Software development (front end): JavaScript(Angular), HTML, CSS;

Hardware design: VHDL, Xilinx, C, C++;

Industrial automation: Siemens simatic S5 & S7, Siemens WinCC S7;

General: MS Office, Latex MS Visio, Adobe Photoshop.

PUBLICATIONS

- **Hejazi S.**, Abhayaratne C., Localized Phase Features for Activity Recognition, IEEE Transactions for Systems, Man and Cybernetics: Systems, 2018, to be submitted by November 2018.
- Sarrami-Foroushani A., Lassila T., **Hejazi S.**, Nagaraja S., Bacon A., Frangi A. F., A computational model for prediction of clot platelet content in flow-diverted intra-cranial aneurysms, 2018, under review.
- Lassila T., Sarrami-Foroushani A., **Hejazi S.**, Frangi A. F., Population-Specific Flow Modelling: Between/Within- Subject Variability in the Internal Carotid Arteries of Elderly Volunteers, 2018, under review.
- Sarrami-Foroushani A., Nagaraja S., Lassila T., **Hejazi S.**, Bacon A., Frangi A. F., In-silico flow diversion in intracranial aneurysms: computational prediction of clot platelet content, British Neurosurgical Research Group Meeting, March 2018, Sheffield, United Kingdom.

REFERENCES

References are available upon request.