

Afshin Heidari Monfared

Web Developer

Web developer and Simulation engineer of metallurgical processes



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EDUCATION

Fullstack Web Development

Hack Your Future / Copenhagen

11/2018 – 08/2019

Copenhagen / Denmark

Courses

- JS, React, Knex.js, Express.js, MySQL, HTML, CSS, Node.js

Welding Metallurgy

Belarusian National Technical University / Minsk

07/2007 – 07/2012

Minsk, Belarus

Courses

- PhD / Deformation reduction of thin plates in the welding process by forced cooling of the high-temperature regions

Extractive Metallurgy

Iran University Science and Technology / Tehran

10/2002 – 02/2005

Tehran, Iran

Courses

- Master / Phase field simulation of solidification

Casting Metallurgy

Karaj Azad University / Karaj

10/1993 – 06/1997

Karaj / Iran

Courses

- Bachelor / Casting of pipe clamp with ductile cast iron

SKILLS

Build Web application using React, Node.js

Simulation of metallurgical processes

Phase field simulation solidification

Simulation of fluid flow

Independent Problem Solving

PERSONAL PROJECTS

Build website using node js and react (11/2018 – 08/2019)

- Implement role based access control in node.js

Mathematical Simulation (05/2015 – 09/2015)

- Numerical simulation of tension and Charpy impact test using LS DYNA software

Mathematical Simulation (01/2013 – 05/2014)

- Numerical modeling of welded joints using SYSWELD for prediction of deformation

Mathematical Simulation (03/2010 – 04/2012)

- Application of Thermo-Calc & DICTRA interface (TQ) for calculation of phase diagrams using Fortran source codes

CERTIFICATES

Fullstack Web Development from Hack your future (11/2018 – 08/2019)

LANGUAGES

Persian

Native or Bilingual Proficiency

English

Professional Working Proficiency

Russian

Professional Working Proficiency

INTERESTS

Creating website using React and Node.js.

Simulation of metallurgical processes with adequate software.

Independent jobs for example mechanical or technical fields, like math or computer programming.

WORK EXPERIENCE

Senior of Research and Development and Quality Control

AMA Industrial Company [↗](#)

06/2009 – 04/2016

Tehran, Iran

Achievements / Tasks

- Quality control of flux cored electrodes and agglomerated powders in submerged arc welding processes.
- Customer consultation about selection of appropriate electrodes for welding of steels.
- Numerical simulation of welding and heat treatment.

Contact: Esmail Rahimi – (+98) - (21) - 4498 3935 - 44

Process engineer of High Carbon Ferro-chrome

Negar Andish consulting engineer [↗](#)

06/2008 – 06/2009

Joghatai, Iran

Achievements / Tasks

- Supervision in operation of High Carbon Ferro-chrome.
- Development Fortran source code for thickness calculation of carbon refractory in the bottom side of electrical arc furnace.
- Preparation procedures of Carbon paste baking.

Contact: Mohammad Amoei – (+98) - (21) - 88511455

Senior of Research and Development Iran Ferroalloy Industries Company [↗](#)

02/2004 – 12/2006

Azna, Iran

Achievements / Tasks

- Calculation of charge composition.
- Development of a program for optimum operation of the furnace with attention to electrical energy and charge material.
- Supervision in operation of Ferrosilicon 73%.

Contact: Mehrdad Khakbiz – (+98) - (21) - 88797033

Marine surveyor

Bekhrad International Inspection Services (BIS) [↗](#)

03/2000 – 08/2001

Bandar Imam Khomeini, Iran

Achievements / Tasks

- Draft survey to measure the amount of cargo loaded in the vessel.
- Ullage survey to measure the quantity of oil loaded to ship tanker vessel.
- Cargo damage survey.

Contact: Abbas Heidari Monfared – (+98) - (21) - 22894345