

# GHOLAMALI GHEIRATMAND HAGHIGHI

Experienced Designer with a demonstrated history of working in the mining & metals industry. Skilled in Zinc, Nickel, Cobalt and Cadmium Hydro-metallurgy, Gas, Mass & Energy Balance, fluid Mechanics and sulfuric acid production process.



## EDUCATION

- **MASTER OF ENGINEERING / SEP 2010 - FEB 2013**  
**Tehran Science and Research University** : Manufacturing Mechanical Engineering  
**GPA: 16/73**  
**Supervisor** : Prof. Abdolhamid Azizi , (ah.azizi@ilam.ac.ir)  
**Thesis**: Zamak alloy fabricating investigation using powder metallurgy's method
- **BACHELOR OF ENGINEERING / SEP 2000 - SEP 2004**  
**Islamic Azad University** : Fluids Mechanical Engineering



## WORK EXPERIENCE

- **ACIDSAZAN ZANJAN Co.**  
FEB 2013 to be continued / Zanzan, Iran  
**Direct Manager**: from Feb 2017 to be continued  
**Plant Manager (Site Soltaniye)** : from Nov 2015 until Feb 2017  
**Technical Manager** : from Jul 2014 until Nov 2015  
**Technical Consultant** : from Oct 2013 until Jul 2014  
"Acidsazan company is the second biggest sulfuric acid producer plant in Iran with a capacity of 400 TPD Industrial sulfuric acid production"  
[www.acidsazan.ir](http://www.acidsazan.ir)
- **Iran construction engineering organization (IRCEO)**  
Jun 2008 to be continued / Zanzan, Iran  
**Design and Construction Supervision**  
"Iran Construction Engineering Organization with more than 100 thousand specialized engineers in the fields of architecture, urbanism, mechanical, electrical installation ,civil , traffic and mapping is known as highest authority in the promotion and guidance and control of the construction industry in Iran."  
[www.irceo.net](http://www.irceo.net)
- **Research and Engineering Co for non Ferrous metals**  
Mar 2012 - Jul 2014 / Zanzan, Iran  
**mechanical engineering department manager**  
"This company was established in 1992 and resumed its activities in 2006 as one of the subsidiaries of Iran Zinc Mines development Holding. Most important hydro-metallurgy research centers in Zanzan"  
[www.reco.ir](http://www.reco.ir)
- **Calcimin Company / Mar 2008 - Mar 2012 / Zanzan, Iran**  
**Technical Director**  
"Calcimin with over 50 thousand ton per annum zinc ingot production is the middle east biggest lead and zinc processing company"  
[www.calcimin.com](http://www.calcimin.com)
- **Karma Sanat Azarbaijan / Oct 2004 - May 2006 / Tabriz, Iran**  
**Quality Control Engineer**



## ADDRESS

No 26.1, Ave Ghareman  
St. Khaje Nasir, Zanzan  
Iran



## CONTACT

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## EMAILS

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## LANGUAGE

- **AZERBAIJANI**
- **TURKISH**
- **PERSIAN**
- **ENGLISH**



## PERSONAL INFO

Birthday: January 28,1981  
Marital Sate: Married



More About me here:  
[linkedin.com/in/gheiratmand](https://www.linkedin.com/in/gheiratmand)



## JOURNAL & CONFERENCE PAPER

- A. Azizi, Gh. Gheyratmand Haghighi, "**Fabrication of ZAMAK 2 alloys by powder metallurgy process**" *The International Journal of Advanced Manufacturing Technology, April 2015, Volume 77, Issue 9–12, pp 2059–2065*
- I. Ataie, M. Valizadeh Holagh, D. Moradkhani, Gh. Gheyratmand Haghighi "**Effect of synthesis temperature on the morphology of Nickel oxide Nanoparticles from CFC Zinc plant residues**" *2nd International Conference on Chemistry, Chemical Engineering and Chemical process, Istanbul, Turkey, 2014*
- GH. Gheyratmand Haghighi, A. Azizi, M. Valizadeh Holagh, O. Gheiraatmand "**Fabrication of ZAMAK 3 alloys by powder metallurgy process**" *3rd International Engineering Materials and Metallurgy Conference, Tehran, Iran, 2014*
- M. Valizadeh Holagh, GH. Gheyratmand, I, Ataie, "**Separation and recycling of Cadmium from Zinc concentrate using with Zinc Cathode**" *3rd International Engineering Materials and Metallurgy Conference, Tehran, Iran, 2014*



## MAIN ACTIVITIES AND SKILLS

- Working with modeling and computer simulation in mechanic such as effluent and Gambit, Catia , AutoCad
- Designing, Calculating, Simulating equipment for industrial processes
- Research methods and teamwork
- Designing chemical processes in industrial and semi-industrial scale
- Calculation of the mass balance and water for industrial chemical processes
- Preparing feasibility study document for sulfuric acid plants, zinc hydro-metallurgical processing plant, nickel, cadmium and cobalt plant.
- Working with Atomic Absorption and IR
- Qualitative and quantitative analysis techniques and identify elements.



## MAIN WORKING ACTIVITIES

- **Project Title : Change Single Absorption Plant to the Double Absorption Plant**  
**Client :** ACIDSAZAN Company / **Working Period :** Jun 2015 - Present  
**Description :** Project is defined to change single absorption plant to the double absorption plant in order to reduce SO<sub>2</sub> emission and increase conversion ratio in ACIDSAZAN Soltaniye plant. I worked in this project as client agent and project manager.
- **Project Title : Distillation Tower Design & Construction**  
**Client :** ACIDSAZAN Company / **Working Period :** Jan 2015 - Jan 2016  
**Description :** The project was defined to recovery of more than 100 m<sup>3</sup>/day soft water that can be circulate in the process line and reduce water usage and expenses significantly. Design and construction of the tower in the plant made us able to recover this value.
- **Project Title : Increasing the efficiency of absorption towers**  
**Client :** ACIDSAZAN Company / **Working Period :** Nov 2014 - Jan 2015  
**Description :** We warmed the absorption tower by changing the plant flow sheet and it affects on efficiency of the absorption tower.
- **Project Title : Sulfuric Acid Plant Construction**  
**Client :** QZSC Company (Qeshm Zinc Smelting Co) / **Working Period :** Jun 2011 - Feb 2014  
**Description :** Project was defined to design, Construction, install and start up the 50,000 tpy sulfuric acid production plant as an EPC project in Qeshm. I worked there as project manager.

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## MAIN WORKING ACTIVITIES (Part 2)

- **Project Title : Nickel Plant Designing**

**Client:** Calcimin Company and RECO (Research and Engineering Co for non ferrous metals) / **Working Period :** Mar 2010 - Mar 2012

**Description :** Cooperating with Calcimin and RECO as a technical director in the project for nickel plant designing at the same time working on laboratory experiments and performing related tests.



## CERTIFICATES

- **Learn Working With GPS**, Issued By: Iran construction engineering organization, 2008
- **Maintenance And Protect Of Filters**, Issued By: IMIDRO (Iranian Mines and Mining Industrials Development and Renovation Organization), 2008
- **Maintenance Of Bulldozers**, Issued By : HEPCO, 2008
- **Natural Gas Piping Establishment**, Issued By: Ministry of Roads and Urban Development of Iran, 2010
- **ISO 9001:2015 Principle**, Issued By: IMQ Academy, 2016
- **IMS (Integrated Management System)**, Issued By: Nobank e Andisheh, 2014
- **Prime Project Management Fundamentals**, Issued By: Prime Learning, 2011
- **Prime Project Management Professional**, Issued By: Prime Learning, 2011
- **Financial Concepts for Non-Financial Managers**, Sharif University of Technology, 2017
- **Heat Exchanger Design**, Issued By: Falat Gharreh, 2017
- **Necessary Contrivances in Energy Saving**, Issued By: Ministry of Roads and Urban Development of Iran, 2015
- **Heating, Cooling, Air replacement and Air conditioning establishments**, Issued By: Ministry of Roads and Urban Development of Iran, 2015



## INTERESTS

- Design, Simulating and construction of the mechanical Equipment
- Research about new advances in metallurgical industries and sulfuric acid plants.
- Powder metallurgical process.
- Trading and bussiness
- Playing tennis as main sport



## MEMBERSHIPS

- Iranian Mining Engineering Organization, Zanjan Province ([www.ime.org.ir](http://www.ime.org.ir))
- Iranian Sulfuric Acid Association



## SOFTWARE

- Microsoft Office Package: Visio, Access, Excel, PowerPoint and Word
- Modeling and Simulation Software: Effluent, Gambit, Catia, Solidworks, AutoCad
- Familiar to programming languages



## REFERENCES

- **Dr. Davoud Moradkhani**, University of Zanjan, Iran.  
Managing Director of RECo, ([dmoradkhani@gmail.com](mailto:dmoradkhani@gmail.com))
- **Dr. Abdolhamid Azizi**, University of Ilam,  
([ah.azizi@ilam.ac.ir](mailto:ah.azizi@ilam.ac.ir))
- **Dr. Mohammad Heydarzadeh**, Direct Manager of BZSC  
(Bafgh Zinc Smelting Co), ([m\\_heydarzadeh20@yahoo.com](mailto:m_heydarzadeh20@yahoo.com))

Thank you for taking the time to read this document  
**Gholamali Gheiratmand Haghighi**  
Working Resume