

CURRICULUM VITAE

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Ph.D. student of Materials Science and Engineering, Sharif University of Technology, Tehran, Iran

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OBJECTIVE

- Pursuing Research and Education in the field of Materials and Metallurgical Engineering with special interest in Mechanical property of Materials, Powder Metallurgy Materials, Composite Materials (Metallic and Polymeric), Nano Materials and Advanced Materials.

EDUCATION

- Ph.D. student, Materials Engineering, Sharif University of Technology, Tehran, Iran. (2013-2015), (GPA=17.13 out of 20), under supervision of Dr Reza Bagheri
- M.Sc., Materials Engineering – Design and Selection of Eng. Materials, Sharif University of Technology, Tehran, Iran. (1998-2000), (Ranked first among All Graduate Students in the Field of Design and Selection of Eng. Materials)
- B.Sc., Materials Engineering – Metals Forming, Faculty of Eng., Shiraz University, Shiraz, Iran.(1994-1998),
- High School Diploma, Mathematics and Physics, “Alborz” High School for Exceptional students, Tehran-Iran (1990-1994)

HONORS & AWARDS

- Ranked first among of all Graduate Students in the field of Design and Selection of Eng. Materials, Materials Science and Eng. Dep. of Sharif University of Technology, (2000-2001).
- Ranked as top 20% among 50 Senior Undergraduate Students of Materials Eng. Dept. of Shiraz University, (Sep. 1998)
- Ranked less than 1% in Nationwide Universities Entrance Exam (Concourse) for M.Sc. Program (among more Than 1000 participants), Feb 1998.
- Ranked less than 0.01 % in Nationwide Universities Entrance Exam (Concourse) for B.Sc. Program (among 700000 participants), May 1994.
- Honored and ranked Top 5% of all school students in all 12 years of pre-university.

ELECTIVE COURSES

- Physical Metallurgy, Phase Transformation, Heat Treatments, Mechanical Metallurgy, Advanced Mechanical Metallurgy, Powder Metallurgy, Principles of Wear and Machining, Principles of Metals Forming, Advanced Metals Forming, Die Design and Workshop, Non Destructive Testing, Metals Coating, Fundamentals of Foundry, Engineering Materials Selection, Statics, Strength of Materials, Diffusion in Solids Materials, Advanced Solidification, Composite Materials, Advanced Polymeric Materials, Physical Chemistry of Materials, Thermodynamics of Materials, Dislocations Theory, Advanced Surface Engineering, Fracture Mechanics, Error in Measurement, Advanced Physical Properties, Advanced Mechanical Properties, Advance Thermo-kinetics, Engineering Mathematics, Strengthening Mechanisms.

PUBLICATIONS, CONFERENCE PAPERS

- M.F.Farahani, M.Binesh, “**Implementation of Conceptual Pattern of Future Technology Research in Automotive Industry**”, The first National Congress of Future Research, Tehran, Iran, 2013.
- M.F.Farahani, M.Binesh, “**Study the Role of Nanotechnology and Knowledge Management in Business Advancement**”, The first National Congress of Future Research, Tehran, Iran, 2013.
- M.F.Farahani, M.Binesh, “**Methods of Future Design-Part 1**”, Sanat-e Khodro Journal, July 2013.
- M.F.Farahani, M.Binesh, “**Methods of Future Design-Part 2**”, Sanat-e Khodro Journal, September 2013.

- M.F.Farahani, H.Khorsand, M.Ashtari and H.Yoozbashizadeh, “**Effect of P/M Composition and Production Parameters on Wear Behavior and Mechanical Property of low Alloy Sintered Steel**”, The 10th Congress of the Iranian Metallurgical Engineering Society, Mashhad, Iran, 2006
- M.F.Farahani, H.Khorsand, M.Ashtari and H.Yoozbashizadeh, “**Effect of P/M Composition and Production Parameters on Wear Behavior and Mechanical Property of low Alloy Sintered Steel**”, The 10th Congress of the Iranian Metallurgical Engineering Society, Mashhad, Iran, 2006
- **B.Sc. Thesis:** An Experimental Research Project-The title of which is:”**Study of the Effect of Production Characteristics on Production of High Quality Aluminum Casting**”, Advisor Prof. K. Janghorban, Faculty of Eng., Shiraz University Shiraz, Iran. (Sep.1998)
- **M.Sc. Thesis:** An Experimental Research Project- The title of which is “**Study of the Effect of Production Parameters on Mechanical Properties and Fatigue and Wear Behavior of Low Alloy Sintered Steels**”, Advisor Prof. H.Yoozbashizadeh, Sharif University of Technology, Tehran, Iran. (Dec. 2000)

WORK EXPERIENCE

- 280 hours Training Course in Iran Pouya Company ,one of the most reputable factory in the field of Extrusion of Aluminum, under supervision of Dr. K. Janghorban . (Summer 1997)
- Over 14 years work in Automotive Industry and Supplying Automotive parts Company (SAPCO) ,Tehran, Iran.(Jan 2001-up to now)

- Participate in several workshops:

Quality:

- Failure Mode and Effect Analysis (FMEA)- 16 hours- Winter 2001- ISS Co.
- Quality Function Deployment (QFD)- 24 hours- Spring 2003- ISS Co.
- Reverse Engineering Methods- 24 hours- Summer 2003- ISS Co.
- International Standards such as: ISO 9000:2000, QS 9000, ISO/TS 16949, SOGEDAC (Standard of Peugeot and Citroen Co.)
- Measurement System Analysis (MSA)- 32 hours- Fall 2003- SAPCO
- Problem Solving Methods- 12 hours- Winter 2003- SAPCO
- Statistical Process Control (SPC) - 32 hours- Fall 2004- SAPCO
- Design of Experiments (DOE) - 35 hours- Summer 2004- SAPCO
- Checking Fixtures Designs- 50 hours- Summer 2005- SAPCO
- Geometric Dimensions of Tolerances (GD&T) - 40 hours- Winter 2006- SAPCO
- Products Audit by PEUGEOT Methods (SQFE) - 8 hours- Winter 2007- SAPCO
- Process Audit (according to PSA methods and PEUGEOT experts) - 16 hours- Winter 2007- SAPCO
- Integrated Management System (IMS) - 4 hours- Fall 2008- SAPCO
- Homologation Seminar- 4 hours- Winter 2009- SAPCO
- SAPCO Supplier Requirements (SSR2)- 16 hours- Fall 2010- SAPCO
- Internal Audit (ISO9001:2008) - 22 hours- Winter 2010- SAPCO
- Lead auditor of (ISO9001:2008) - 40 hours- Winter 2010- SAPCO

Management:

- Malcolm Baldrige- 3 hours- Fall 2003- SAPCO
- Principles of Negotiation Techniques- 8 hours- Winter 2003- SAPCO
- Stress Management- 3 hours- Winter 2004- SAPCO
- New Approach in Organizational Leadership Coaching- 3 hours- Summer 2006- SAPCO
- Time Management Techniques- 7 hours- Summer 2006- SAPCO
- EFQM- 16 hours- Fall 2007- SAPCO
- Creativity and Innovation Tools- 16 hours- Spring 2008- SAPCO
- Excellence in Supervision: Principles of Management and Organization- 12 hours- Summer 2008- SAPCO
- Excellence in Supervision: Human Relationships- 16 hours- Fall 2008- SAPCO
- Excellence in Supervision: Human Resources - 8 hours- Fall 2008- SAPCO
- Excellence in Supervision: Communication Technology and Its Application in Management- 12 hours- Winter 2008- SAPCO
- Project Management- 20 hours- Spring 2009- SAPCO
- Excellence in Supervision: Professional Ethics in Industry- 8 hours- Spring 2009- SAPCO
- Excellence in Supervision: Organization Leadership- 8 hours- Spring 2009- SAPCO
- Excellence in Supervision: Emotional Intelligence- 4 hours- Spring 2009- SAPCO
- Excellence in Supervision: Development- 4 hours- Spring 2009- SAPCO
- Excellence in Supervision: Skills of Oral Presentation- 4 hours- Spring 2009- SAPCO
- Customer Relationship Management (CRM) - 8 hours- Winter 2009- SAPCO
- Excellence in Supervision: Entrepreneurship- 2 hours- Summer 2009- SAPCO
- Customer relationship Psychology- 2 hours- Winter 2009- SAPCO
- Management in Japanese Companies (Organization, Personal and Products) - 3 hours- Fall 2010- SAPCO
- Application of New Products: Plastics and their Technology in Auto Industries- 2 hours- Fall 2010- SAPCO
- Management Accounting and IT- 8 hours- Fall 2010- SAPCO
- Effective Time Management Skills- 8 hours- Spring 2012- SAPCO
- Seminar of Systematic Views- 8 hours- Fall 2012- SAPCO
- New Approaches in Human Relationships- 4 hours- Fall 2012- SAPCO

Specialized:

- Methods and Techniques of Training Courses Design- 12 hours- Winter 2004- SAPCO
- Process and Standards of Metallic Sheets- 23 hours- Fall 2010- SAPCO
- Application of Powder Metallurgy Process in Auto Industry- 4 hours- Winter 2010- SAPCO
- Grain Leather Technology on Plastic Molds- 2 hours- Spring 2011- SAPCO
- Participate in 4th Common Conference of Iranian Metallurgical Engineering's Society and Iranian Foundrymen's Society, - 16 hours- Spring 2011- SAPCO
- Design, Manufacturing and Application of Nuts and Fasteners- 4 hours- Summer 2011- SAPCO
- Introduction to Cost Reduction by Process Design- 3 hours- Summer 2011- SAPCO
- Introduction to Cost Reduction Strategies by Product Design- 3 hours- Summer 2011- SAPCO
- Introduction to Design of Wiper Blades of Vehicles- 3 hours- Fall 2011- SAPCO
- Airbag Systems Manufacturing- 2 hours- Spring 2012- SAPCO
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General:

- First Aid - 32 hours- Winter 2005- SAPCO
- Technology in Economic Institutions - 2 hours- Spring 2009- SAPCO
- Psychology of Success- 2 hours- Fall 2009- SAPCO
- Personality Analysis and Its Applications in Personal Promotions- 2 hours- Fall 2009- SAPCO
- Introduction to Vehicle Mechanisms and Engines- 35 hours- Spring 2010- SAPCO
- Seminar of Target Define- 3 hours- Spring 2010- SAPCO
- Introduction to Fire Fighting- 4 hours- Winter 2010- SAPCO
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• Audit of some foreign companies such as:

- Kiekert Co. - Czech Republic and Germany - Field of activity: Production of Mechanical Latches - May 2004
- 7 Korean Companies- South Korea- Field of activity: Fasteners (Bolts and Nuts) by Cold Forging Process and Heat Treatments and Various Coating Technology - July 2005
- DOGA Co.- Spain - Field of activity: Wiper Blades of Automotives and Rubber Blades – Dec.2006
- 5 Chinese Companies- China- Field of activity: Window Lifter System- July 2007
- 3 Indian Companies- India- Field of activity: Cold Forging, Heat Treatment and Coating of Bolts and Nuts in Auto Industries- Oct. 2008.

RESEARCH AND TEACHING EXPERIENCE

- Internship Project whose title is ” **Optimization of Water Pump and Carburetor Body that Produced by Die Casting Method Based on Aluminum Alloy**”, The Project between Sharif University of Technology and SAPCO (Supplying Automotive parts Company), Sharif University of Technology, Tehran, Iran.(Jul.1999-Oct.1999).
- Research Assistant (RA) of Prof. H.Yoozbashizadeh, on Project whose title is ” **Change of Production of Two Parts of Paykan Engine From Casting Process to Powder Metallurgy Process**”, The Project between Sharif University of Technology and SAPCO (Supplying Automotive parts Company), Sharif University of Technology, Tehran, Iran. (Sep.1999-Jan.2001).
- Teaching “**Mechanical Metallurgy**”, “**Advanced Mechanical Metallurgy** “, “**Thermodynamics of Materials**” to participants of nationwide universities entrance exam for M.Sc. Program, Sharif University of Technology, Tehran, Iran. (2000- 2001).
- Teaching “**Materials Science**”, “**Heat Treatment**” and “**Die Design and Workshop**” courses, Azad University, Takestan, Qazvin, Iran. (2002-2003).
- Teaching “**Materials Science**”, “**Non Destructive Testing**”, “**Mechanical Properties of Materials**”, “**Thermodynamics**” and “**Metals Forming Principles**” courses over 9 years, University of Applied Science and technology (SAPCO Center), Tehran, Iran. (2004-2013).
- **B.Sc. Thesis:** An Experimental Research Project-The title of which is:”**Study of the Effect of Production Characteristics on Production of High Quality Aluminum Casting**”, Advisor Prof. K. Janghorban, Faculty of Eng., Shiraz University, Shiraz, Iran. (Sep.1998).
- **M.Sc. Thesis-** An Experimental Research Project- The title of which is “**Study of the Effect of Production Parameters on Mechanical Properties and Fatigue and Wear Behavior of Low Alloy Sintered Steels**”, Advisor Prof. H.Yoozbashizadeh, Sharif University of Technology, Tehran, Iran. (Dec. 2000).

ACCOMPLISHED COURSE PROJECTS & TERM PAPERS

- Powder Metallurgy Course,”**Study of Mechanical Property and Microstructure of Connecting Rods that Produced by Powder Forged Process**”, Advisor Prof. K.Janghorban, Fall 1997.
- Materials Selection Course,”**Study of the Physical and Mechanical Property of the Al-SiC Composite which Produced by Powder Metallurgy Process**”, Advisor Prof.K.Janghorban, Spring 1998.
- Materials Selection Course,”**Application of Al-SiC Composites in Auto-Industry**”, Advisor Prof.K.Janghorban, Spring 1998.
- Composite Course,”**Study of Mechanical Property of Polymeric Matrix Composite (PMC), Based on Polypropylene where Reinforced by Glass Fiber**”, Advisor Prof.R.Bagheri, Fall 1998.
- Strengthening Mechanisms,”**Particle Reinforced Composites**”, Advisor Prof. Ekrami, May 2014.
- Advanced Mechanical Properties, ”**Application of Optimization Methods in Materials Engineering**”, Advisor Prof. Bagheri, May 2014.

COMPUTER SKILLS

- Application Software: Microsoft Office (Excel, Word, Power Point), Out Look, Auto Cad, Mechanical Desktop, Solid Works, Ansys.
- Programming Languages: C
- Operating Systems: MS DOS, MS Windows, XP, Internet
- Statistical Software: MINITAB

LANGUAGE ABILITIES

- Abilities of “**Farsi**” as Mother Tongue
- Abilities of “**English**” as Foreign Language: (Listening, Reading, Writing and Speaking) (fluent)
- Applied English courses based on Business English Books (Socializing, Telephoning, Meeting and Correspondence)
- Applied English courses based on Business Result Books

PROFESSIONAL MEMBERSHIPS

- Member of Iranian Association of Metallurgical Engineering
- Member of Iranian Association of Foundry
- Member of Materials Engineering Comity of SAPCO

EXTRA CURRICULAR ACTIVITIES

- **Arts:** Listening to Classical Music, Listening to POP & folk Music, and Iranian traditional music
- **Sports:** Mountain Climbing, Swimming, Body Building ...
- **Cultural Activities:** Reading Books, Going to Concerts, Learning new languages, Listening & Following the News, Discussing new ideas with friends, watching movies and discussing about them

REFERENCES

- **Dr. H.Yoozbashizadeh** , Associate Professor, Deputy of Postgraduate Department of Material Science and Eng. Dep., Sharif University of Technology (E-mail:YOOZBASHI@SHARIF.EDU)
- **Dr.R.Bagheri** , Associate Professor, Deputy of Training Department of Material Science and Eng. Dep., Sharif University of Technology (E-mail:REZABAGH@SHARIF.EDU)
- **Dr. A.A.Ekrami** , Associate Professor, Department of Material Science and Eng., Sharif University of Technology (E-mail: EKRAMI@SHARIF.EDU)
- **Dr. S.M.Seidreihani** , Associate Professor, Department of Material Science and Eng., Sharif University of Technology (E-mail:REIHANI@SHARIF.EDU)
- **Dr. A.Simchi** , Associate Professor, Department of Material Science and Eng., Sharif University of Technology (E-mail:SIMCHI@SHARIF.EDU)

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