

Ali Nikouey

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Core Competencies

- Complete authority in manufacturing plastic injection molds
 - Computer Numeric Control (CNC)
 - Software/Hardware: Mitsubishi, Fanuc, Heidenhain, Siemens.
 - Set up and repair: controllers, mechanicals
 - Material and supplies: selection, ordering and processing
 - Design: communication of complex topics with minimally educated individuals
 - Execution: development of ideas from descriptions to objects.
- CAD/CAM: Full competence in Catia. Taught numerous classes for 10 years
- Owned and operated a CNC manufacturing center for the past 15 years
- Bachelor degree in Manufacturing Engineering concurrent with running own business
- Computer programming: Design, Coding and deployment in VB, GCode
- Reverse Engineering of molds, production parts and repair parts
- Fluent in English: Scored 6 in IELTS

Technical Skills

The only member of *Mold and Die Maker's Union* with full English communication skills serving colleagues in one of the largest mold, cast and die making hubs in the country.

Full Expertise

1) Manufacturing

- Design and Fabrication of Plastic Injection Molds, Plastic Blow Molds and Dies.
 - From customer description of needs/problems to the industrial solution.
 - Calculation of design element to meet molds' fortitude & performance specs.
 - Components & sub-assemblies/full assembly details. Combination Dies.
 - Feasibility, production output requirements and cost estimations.
 - Cast material selection as per CAD and CNC machining requirements.
 - Operation of several types of injection machines manufactured from 1960s to 2016.
 - CNC Controllers (both 3 and 4 axis): Mitsubishi, Fanuc, Heidenhain, Siemens, etc.
 - Troubleshooting & repair: CAM designs, software and/or hardware issues
 - Routinely fixing "impossible" electronic and mechanical issues for colleagues
 - Calibration and Controllers' issues
 - Cost estimates for individual fabrication steps to turn-key operations
 - Reverse Engineering of parts via digital scanning and cloud-point manipulations
- Manufacturing Industrial Parts
 - Gears, shafts, enclosures, motors/engines/auto parts
 - Decisions on drafting, runners, parting lines, cavities etc.
 - Aftermarket and replacement parts for,
 - Machine shops: CNC, Milling, Lathe, Radial Drill, EDM, etc.
 - Injection and Blow Molding Machines for out of production automotive and engine parts

Full Expertise: Manufacturing Continued ...

- Product improvements: Design and manufacturing of novel improvements
 - Fruit-specific crates [2008-2017]
 - Individually secured fruits in transportation baskets [2012]
 - Stackable fruit baskets with novel interlocking legs [2009]
 - Industrial LED Light Projector and Security Camera enclosures [2015-2017]
 - Novel design of a 3-liter container [2010]
 - Female Urinal bottle [pending]
- Operation management
 - Running a crew of five for 13 years. Hiring interview to training managers.
 - Day to day operation of business, customer relations and all financials.

2) Complete independence in computer software

- Full competence in Catia's Mechanical Environment
 - Free Style, Digitize Shape Editor, imagine and shape, Mold Tooling Design, Generative Shape Design, DMU Kinematics and other CATIA skills.
- Fluent in Visual Basic (VB.net) and GCode
- Writing Macros for a wide variety of controllers
- Design/Simulation: SURFCAM, Mastercam, Cimatron, CATIA, Powermill, Moldflow-Insight, IMS Post, AutoCAD, Mechanical Desktop
- Power Mill, CorelDraw, Photoshop, SQL, Bascom
- MS Office Suit, Various OS, other general programs: Too many to enumerate.

3) Use of Manufacturing Tools

- Milling machines. Turning/Lathe: Manual and CNC
- Horizontal Grinder, EDM, Saws, Radial and Articulate Drill Press, etc.
- System installation/upgrade and troubleshooting for many brands of Turning and Milling machines both Manual and numerically controlled.
- Operation of Plastic Injection Molding Machines: Krauss Maffei, Battenfeld, Haitian, Golden Eagle
- Arc-MIG-TIG welding, Silver solder, Oxyfuel welding & cutting
- Properties, applications, and market prices for:
 - Polymers: HDPE, LDPE, PP, ABS, POM, PS, PA
 - Steel alloys, Aluminum alloys, Gray cast iron, Cupper, Phosphor bronze, Brass

Other skills

Operational knowledge

- Hydraulic Systems
- Electronic and Electrical (power) System: Motors Switches, Relays, etc.
- AVR and Arduino programming for basic control circuits
- Extrusion Process, Rolling Molding Process, Gas assist plastic injection molding Process, Broaching, Blanking, Roll Forming, Hydroforming, Progressive Stamping, Forging, Die Casting

Workplace History

1) **Owner/Operator** Arian Pars Tethys Co.

Nov 2004 - Present

Field of Activity

- DFM of Plastic Injection Molds and Plastic Blow Molds
- Manufacturing of Industrial Parts
 - CNC Machining Services
 - Catia Modeling Services

Duties

- Eight full-time workers: training, Day-to-day hands-on micro-management
- Marketing and customer service. Financial planning / forecasting

Top 10 customers presented as work history. For references, see below. Phone prefix: +98 911

Name	Industry	Site	Contact	Phone
1. Kalleh Dairy Co.	[Food]	<i>kalleh.com</i>	<i>Mrs. Hashemi</i>	714-8292
2. Delveseh Food Industries Co.	[Food]	<i>delveseh.com</i>	<i>Mr. Jamshidi</i>	111-2630
3. Ravak Food Industries Co.	[Food]	<i>ravak-co.ir</i>	<i>Mr. Tavassolian</i>	121-3353
4. Doosheh Dairy Co.	[Food]	<i>harazdairy.com</i>	<i>Mr. Smaeelnejad</i>	120-3605
5. Andisheh Industrial Group	[Auto]	<i>andishehig.com</i>	<i>Mr. Mehrpoya</i>	118-4219
6. Behin Keyfiat Shomal Co.	[Auto]	<i>behinkeyfiat.com</i>	<i>Mr. Roshanzadeh</i>	114-6016
7. Pazavar Co.	[Household]	<i>pazavar.com</i>	<i>Mr. Krintabar</i>	115-6030
8. Mazand Pelast Ghaem Co.	[Packaging]	<i>mazandpelast.com</i>	<i>Mr. Ghanbari</i>	111-9816
9. Polygol Amol Co.	[Household]		<i>Mr. Sarlak</i>	312-2354
10. Jam Plastic Amol Co.	[Food]		<i>Mr. Shakeri</i>	327-2667

2) **Mold Maker:**

Pishro Plastic Tabarestan Co.

www.ppt.co.ir

Jun 2002-Nov 2003

Pazavar Co.

www.pazavar.com

Jun 2000-Jun 2001

Hiwa Electronic Co.

www.hiwa-co.com

Apr 1999-Jun 2000

Title: Mold manufacturing manager

- Received customers' specs from plant manager and submitted the finished product
- In charge of design and manufacturing
- Supervised machinists
- Trained employees

3) **Tool Maker**

Asia Auto Part Co.

www.asiaautopart.com

Jun 2001-Jun 2002

Title: Production line technician

- Large-quantity production of industrial pieces. From drawing to tooling
- Multi-Spindle Gear systems
- Reverse engineering, plans, and tooling choices of market samples
- Milling and Turning Machines Operator. NC and Manual

Education

Bachelor of Science Manufacturing Engineering

Simorg University, Kiakola, Iran

www.uast.ac.ir

Sep 2012-Jul 2016

- Design and Manufacturing: Plastic Injection molds, milling and turning, CNC programming, die casting
- Theoretical: Static & Dynamic Mechanics, engineering math, principles of metal forming
- Practical: Set up, system installation and troubleshooting of fabrication machines

Education Continued ...

Vocational High School Diploma Turning & Milling
Shahid Salariyeh Technical High School. Babolsar, Iran

May 2008

Certificates/Diplomas

Tech. & Voc. Training Organization
Campus 1. Qazvin Iran

www.ghazvintvto.ir

Sep 1998-Mar 1999

- Diploma: Mold Fabrication - Industrial CAD & Drawing

Tech. & Voc. Training Organization
Shahid Motahari Center. Ghaemshahr, Iran

www.mazandarantvto.ir

Mar 1998-Sep1998

- Diploma: Milling and Turning - CAM

English as a Second Language (ESL)
Shoko's Institute. Babol, Iran

www.gasha.ir

Sep 1991-Sep 1995

- Certificate of Completion: Elementary, Intermediate and Advanced Levels

Teaching/Training Experience

- CATIA. Instructor of Record. Ilya Institute. Babolsar, Iran. Summer 2007
- More than ten private tutoring students on CATIA
- Trained over 20 current and former employees on Milling, Turning and CNC machines

Language Skills

- English: Excellent communication skills. ESL & IELTS
- Persian: Native. Academic education.
- Some Dari and Arabic

Personal

- Music, Travelling, Fishing, Race cars

References

References furnished upon request.

- Excellent industrial and commercial contacts as vocational references
- Long-Term Canadian and American citizens as character references