

Saeed Bahrami

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[Saeed Bahrami](#)



Creative professional mechanical engineer with over a decade of experience and success in product development projects in diverse industries. Able to support cross functional team in research, design, development, prototyping, testing and delivery of leading-edge products and solutions. Proven problem solving and troubleshooting skills.

Core Proficiencies

- Product Development | Process Optimization
- Pragmatic Problem Solving | Troubleshooting
- Integrity | Teamwork | Self-propelled
- Practical Experience | Active Engagement
- Cost Analysis | Budget Management
- Mechatronic systems | Manufacturing process
- Quality-Conscious | flexible Mindset
- SolidWorks | Matlab

Education

- **PhD in Mechanical Engineering** -2009 to 2014
KN-Toosi University of Technology (KNTU)
Tehran- Iran- GPA 18.6
- **MSc in Mechanical Engineering**-2006 to 2009
Amirkabir University of Technology (Tehran polytechnic)
Tehran- Iran- GPA 17.5
- **BSc in Mechanical Engineering**- 2002 to 2006
KN-Toosi University of Technology (KNTU)
Tehran- Iran- GPA 16.3

Work history

Chief Designer and Project Manager – 01/2016 to present
Deltakar Co., Alborz, Iran (<http://en.deltakar.com/>)

- Led and managed several product development projects in the airport ground support equipment industry
- Successfully developed a ground power unit (GPU) and container pallet loader(CPL) according to the AHM standard
- Utilized a hands-on approach to contribute actively throughout all phases of projects resulting in significant experience across various fields, including machining, forming, sheet metal, fiberglass and welded structures
- Gained invaluable experience and exposure to diverse mechanical and mechatronic subsystems, such as machine design, electrical machinery, hydraulic and electrical systems through active involvement in all project stages from benchmarking to mass production
- Successfully managed project budgets and timelines, resulting in on-time and within-budget project completion
- Modifying the company's current products to align with new customer opinions and AHM standard updates

Mechanical Designer – 06/2014 to 01/2016

Robonic, Tehran, Iran (<https://robonic.ir/>)

- Designed and developed a modular Biscuit Grouping Machine, T-Bot Robot, Cartoon Conveyor, and Trydenster for a production line with over ten different types of products, including variations in biscuit and cartoon size. Involved in all stages, from benchmarking to releasing manufacturing drawings
- Mechanical designer for several projects, including an Adhesive Applicator for Car Suspension Parts, Heating Table for Polyurethane Curing, Horizontal Soil Testing Machine, and Tire and Tube Packing Machine

Selected Publications

- Saeed Bahrami, Ali Ghaffari and Marcus Thern, Improving the transient performance of the gas turbine during frequency dips by steam injection, *Energies* 6, 5283-5296, 2013.
- Saeed Bahrami, Ali Ghaffari, S.Hossein sadati and Marcus Thern, Identifying a Simplified Model for Heavy Duty Gas Turbine, *Journal of Mechanical Science and Technology*, Vol. 28 (6), pp. 2399-2408, 2014.
- Saeed Bahrami, Ali Ghaffari, Magnus Genrup, Marcus Thern, Performance comparison between steam injected gas turbine and combined cycle during frequency drops, *Energies* 8, 7582-7592, 2014.
- Saeed Bahrami, Ali Keymasi Khalaji, Modified mathematical model for variable fill fluid coupling, *Journal of Computational Applied Mechanics*. Vol. 49, No. 2, 408-414, 2018.
- Horrian, S., and S. Bahrami. "Estimation of the Payload Mass in DELTA Robot by Using the Motor Torque." 27-38, 2020. (In Persian).

R&D Researcher – 01/2014 to 09/2014

Mangan Industrial Group, Tehran, Iran (www.mangan.ir)

- Developed a design code for an integrally geared centrifugal compressor volute in *MATLAB* and *SolidWorks*
- Designed a performance deck for a hydraulic coupling using *MATLAB* software

Guest researcher – 02/2013 to 09/2013

Lund University, Lund, Sweden (www.tpe.energy.lth.se/)

- Conducted research in the Energy Science Department of Lund University of Technology, mainly focusing on my PHD thesis about transient performance of the gas turbine in island operation

Internship – 01/2007 to 02/2009

Irankhodro Powertrain Company (IPCO), Tehran, Iran (www.ip-co.com/)

- Developed a performance deck for a mild hybrid car using system identification methods. Actively participated in all project steps, including preparation for the test, testing the car on a dynamometer, and generating required code
- Engaged in development process of the 1.7-Liter by-fuel engine in collaboration with FEV Germany mainly focusing on combustion engine management systems