

Amirsaman Hamzeh

1320 E. Capitol Dr. #205
Milwaukee, WI, 53211

E-mail: Hamzehb2@uwm.edu
Cell Phone: (414) 394-9227

Technical Experience:

- **Industrial Assessment Center (IAC) Research Lab Officer** (funded by DOE.)
 - Performed energy consumption assessments during an auditing session and proposed energy saving recommendations including HVAC, Air compressor, Motors, Lighting, etc. systems, which by average, saved 15% of the total billing costs of production plants in Wisconsin. **February 2015 - Now.**
- **Graduate Teaching Assistant** at University of Wisconsin-Milwaukee, Industrial Engineering Department.
 - Taught Statistical software to engineering students to perform statistical analysis. **August 2013 - Now.**
- **Data Analyst** at Saman Bank.
 - Completed data analysis and extracted statistical reports from big sets of customers' data. **June 2013 – August 2014.**
- **Project Planner** at “Maskan Omran Qods Razavi Co.”
 - Participated in the process of planning of projects based on PMBOK standard. Oversaw the progress and presented weekly reports of that to management team. **September 2012 - Jun 2013.**
- **Business Analyst Intern** at Petropars Co.
 - Wrangling data from multiple sources to analyze and create integrated views that can be used to drive decision making. **Summer 2009.**
- **Developed a mathematical model** using Integer Linear Programming for Operating Theatre scheduling of a hospital and solving the problem using MATLAB and SA (real case). **Summer 2011.**
- **Developed a heuristic algorithm** for solving a real Course Timetabling Problem at Amirkabir University of Technology. **Summer 2009.**

Education:

University of Wisconsin-Milwaukee, WI (Aug. 2014 – Now)
Doctor of Philosophy: Industrial Engineering, Operations Research (Major)
Business, Supply Chain Management and IT (Minor)

Sharif University of Technology, Tehran, Iran.
Master of Science: Industrial Engineering. (Sep. 2010 – Sep. 2012)

Amirkabir University of Technology, Tehran, Iran.
Bachelor of Science: Industrial Eng., Systems Planning and Analysis. (Sep. 2006 – Sep. 2010)

Certificates:

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|------------|---------------------------------------|---|
| July 2016: | Getting and Cleaning data | <i>Coursera</i> |
| June 2016: | R Programming | <i>Coursera</i> |
| May 2016: | Data Scientist's Toolbox | <i>Coursera</i> |
| Sep 2013: | Financial Modeling using Excel | <i>Held by Sharif university of Technology.</i> |

Software skills:

General: MS Office

Programming: C++, MATLAB, SQL, VBA

Optimization: CPLEX, LINGO

Statistics: R, SAS, Minitab, Excel

Database Management: Oracle

Notable Courses Taken

- **Optimization**
 - A review on Non-linear Programming and solving methods using MATLAB.
- **Advanced Microeconomics Theory**
 - A comprehensive course covering **Game Theory** and types of games.
- **Advanced Computational Methods**
 - A comprehensive review on exact and heuristic solving methods, using CPLEX and C++.
- **Applied Game Theory in Supply Chain Management** (Doctoral Seminar)
- **Stochastic Processes**
 - Queueing theory and Markov Chain.
- **Database Management Systems**
 - Relational Database implementation using Oracle.
- **6 Sigma**
 - Conducting a 6 Sigma project to improve the performance of teaching assistants at UWM.
- **Supply Chain Management**
- **Sequencing and Scheduling**
 - Modeling a real manufacturing environment using Linear Programming to improve the efficiency of the production line.
- **Pricing and Revenue Management**
- **Design of experiments**
- **Statistics and Probabilities.**
- **Inventory Control.**
- **Management Information Systems Design and Control.**