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### Education:

- BSc, Mechanical Engineering, Shahid Rajaee University, Tehran, Iran
- MSc, Mechanical Engineering, University of Birjand, Birjand, Iran
- PhD, Mechanical Engineering, University of Birjand, Birjand, Iran

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### Courses:

- Industrial Drawing, BSc
- Engineering Drawing, BSc
- Hydraulics and Pneumatics, BSc
- Metal Forming, MSc
- Automation in Production, MSc

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### PUBLICATIONS

#### Conferences:

- Kh. Khalili, S.Y. Ahmadi brooghani, **A. Ashrafi**, "Investigation on the Effect of Pulsating Pressure on Tube-Hydroforming Process", 14th International Conference on Sheet Metal (shemet 2011), 18-20 April 2011, Katholieke Universiteit Leuven, Belgium , Published in Key Engineering Materials, Vol. 473, pp 618-623.
- **A. Ashrafi**, K. Khalili, "Study of the hydraulic bulge test in T-shape Hydroforming Die", 8th International Conference Inter disciplinarily in Engineering, INTER-ENG 2014, 9-10 October 2014, Tirgu-Mures, Romania.
- F. Akbary, M. Sajed, **A. Ashrafi**, S. M. H. Seyedkashi, "Influence of Welding Parameters on Strength of Friction Stir Spot Welded Polyethylene Sheets Using Two-Stage Refilling Process", The 4th International and 15th National Conference on Manufacturing Engineering (ICME2018), 24-25 October 2018, Tehran, Iran.

#### ISC:

- **A. Ashrafi**, K. Khalili, "Studying the stress-strain curve of C12200 Copper tube using hydraulic bulge test in T-shape die", Modares Mechanical Engineering, Vol. 14, No. 13, pp. 95-106, 2015 (In Persian)
- Kh. Khalili, **A. Ashrafi**, "Study of the hardening models in T-shape pulsating hydroforming process", Modares Mechanical Engineering, Vol. 15, No. 4, pp. 401-412, 2015 (In Persian)

- Faraji H, Khalili Kh, **Ashrafi A**. The Use of Internal Mechanical Insert to Prevent Wrinkling Defects in T-joint Hydroforming Process Modares Mechanical Engineering. 20-19; 19(8):1989-2000.

**ISI:**

- **A. Ashrafi**, K. Khalili, "Investigation on the effects of process parameters in pulsating hydroforming using Taguchi method", Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 230(7), 1203–1212. <https://doi.org/10.1177/0954405415597831>

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**Research Interest**

- Metal forming processes
  - Industrial Automation
  - Finite element analysis
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