

# Rami Al-Ajo

## Mechanical Engineer

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Amman, Jordan

### Summary

A fresh mechanical engineering graduate from Philadelphia University with a very good degree. Strong work ethic, proven leadership capabilities, and a passion for production and maintenance. Seeking to build a career and gain experience in fields of mechanical engineering.

### Education

**Bachelor of science in Mechanical Engineering, GPA 76.6% (Very good)**

**2021**

Philadelphia University – Amman, Jordan

### Professional experience

**Graduation project: “Rotary Friction Welding”, encompasses the following:**

- Presented a general model of RFW, which could be helpful to calculate temperature distribution and burn-off volume as a function of directly controllable technological parameters, including axial force, spin velocity, torque, and time.
- Performed RFW mathematical, frictional, and dynamical models.
- Discussed FW types such as linear, rotary, inertia, friction surfacing, and stir welding, as well as their applications.
- Clarified compensations of FW.
- Identified the most common phenomena and defects observed during the metallographic investigation of the welds, including IML, porosities, and complete fracture.
- Conducted experimental welding trials of steel to aluminum.

**Intensive “Pump: Selection, Operation, and Troubleshooting” workshop with the Jordanian Engineers Association held between 14<sup>th</sup> – 30<sup>th</sup> March 2021:**

- Covered national and international codes and standards.
- Reviewed functions, types, and classifications.
- Performed hydraulic calculations for different systems.
- Demonstrated construction, performance, and characteristic curves.
- Identified selection, solutions, NPSH, and cavitation’s
- Illustrated installation, testing & commissioning.
- Accomplished maintenance actions.

### Skills

- Sound understanding of the main physical principles related to static and dynamic mechanics.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Implement creativity and pair it with applicable and high-quality skills in order to design and develop ground-breaking solutions to contemporary problems with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- AutoCAD
- Microsoft Excel.
- SolidWorks
- Dependable, responsible, and high-performing.
- Innovative
- Self-disciplined.

### Languages

- Arabic: Bilingual proficiency
- Hebrew: Limited working proficiency
- English: Professional working proficiency

### Additional notes

- Affiliation to the Jordan Engineers Association.
- Driving license.

### References

- Available upon request.