








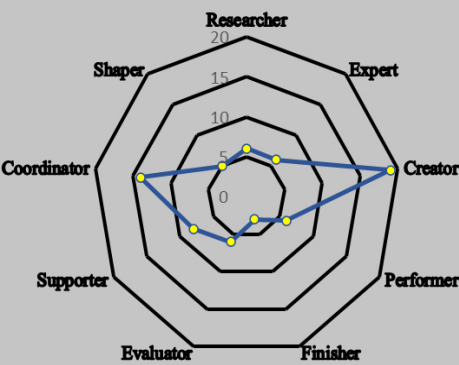
# Sina Javanmardi

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**About me**

As a Master's student in Sustainable Energy Systems and Computational Engineering, I am dedicated to revolutionizing solar monitoring technologies via a multidisciplinary approach. My professional journey in full-stack development and IoT was strategically pursued to master every technical layer of a modern engineering business-from hardware integration to software architecture. I aim to leverage this comprehensive expertise to invent innovative, efficient solutions and independently lead to entrepreneurial ventures that drive the transition to green energy. My ultimate goal is to bridge the gap between complex engineering and market-ready production to significantly reduce the human environmental footprint.

## Skills



Personality Test Results - INFJ

## Education

- 2021-Present **Master of Science** Ruhr-Universität Bochum  
Mechanical Engineering - Sustainable Energy Systems and Circular Process Engineering
- 2015-2020 **Bachelor of Science** Sharif University of Technology  
Aerospace Engineering  
Thesis: Design and Simulation of an Operational Ducted Fan (Focus on High-Efficiency Electric Propulsion)

## Technical Skills

- Languages JavaScript, TypeScript, Python, C++, C, Flutter, PHP, Java, MATLAB, HTML, CSS, SQL
- Database MySQL, SQLServer, Influxdb
- DevOps Docker, CI/CD(GitLab/GitHub), Linux
- Tools Git, VS Code, Jupyter Notebook, MATLAB, Jira, Figma, Postman
- Softwares PVSOL, PVsyst, AutoCAD, Photoshop, Blender, Office, LaTeX

## Professional Projects

### Academic Projects

- 2019 Team K.E. & Airbus FYI - New method to enhance energy storage and distribution. Developed energy management strategies for decentralized power storage systems.
- 2018-2019 Team K.E. Supervisors Dr. Mohammad Farshchi & Dr. Mohammad Reza Morad - "KE-331" next generation high efficiency turboshaft engine for hybrid electric search and rescue UAV - AIAA

### Industrial Projects

- 2025 Parsincoo team - Design and implementation of a smart home energy management system using IoT technology by open-source platform Thingsboard for optimal energy consumption and cost savings based on AI.
- 2024 Parsincoo team - Develop a financial application Vema providing services to users through a web-based platform to pay for various online services using flutter and Node.js.
- 2022 A self-directed engineering and investment project 0.1MW focused on mastering energy production, creating economic value and pioneering innovative solutions in the solar sector.
- 2018 Student S.J. & Supervisor Homa Maintenance Engineers - Revising CFM engines manuals and performance monitoring methodologies. Created advanced monitoring maps & simulation for efficiency analysis and fault detection.

## Working Experience

- 2025-Present **Founder & System Architect** Parsincoo
- Initiation of a self-defined project focused on developing decentralized solar monitoring solutions using the ThingsBoard IoT platform.
  - Engineered a data layer using InfluxDB (Time-series database) & Grafana to create real-time energy analytics.
  - Developed a basic framework for raw data retrieval, transmission to the cloud using advanced protocols and prediction of energy production & consumption using AI.
- 2024-Present **Solar Energy System Designer** Parsincoo
- Designed solar farm for 0.1 to 1MW ground-mounted and rooftop PV systems utilizing simulation software PVSOL & PVsyst for design optimization and financial report.
  - Managed the end-to-end implementation phase, including the selection of components and supervising construction to ensure strict compliance with quality standards.
  - Led a system for real-time performance monitoring, efficiency analysis, system health, system alerts, production estimation, maintenance prediction and AI implementations.
- 2022-2024 **Junior Full Stack Developer** Evonik Industries
- Designed IoT monitoring frameworks for industrial facilities & optimizing data acquisition processes.
  - Developed automated data pipelines using Java, Python & Shell scripting for system reliability.
  - Integrated design to bridge industrial hardware with cloud-based monitoring & efficient energy management systems.
- 2018-2019 **Innovator & Designer** Hardtech Accelerator
- Engineered end-to-end IoT solutions & custom Telegram-based control interfaces.
  - Managed full-cycle product development, industrial appearance design & hardware integration.
  - Developed synchronization of real-time data acquisition and user-end dashboards.
- 2016-2017 **PHP Programmer** Faraz Gostar Amn Co.
- Enhancing Communication Security of Banks.
  - Improving MySQL DataBase Organization.
  - Modifying the Algorithm Strategy to Block Chain.
- 2015-2016 **Seo & Fron-End-Developer** ITECS Co.
- UI & UX Developer by CSS, HTML, JS
  - Website Designer
  - SEO Instructor

## Internship

- 2018 **Iran Air (Homa)**
- Certificated as an Aerospace Engineer at Iran Air Company - Supervisor Dr. Mohammad Reza Morad
- Engine & Components Performance
  - Hydraulic Systems
  - Sheet Metal & Composite
  - Aircraft Maintenance
  - Human Factors, Errors & Teamwork