



MOHAMMAD PARHAMFAR

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RESEARCHGATE:
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LANGUAGES

- German– B1
- English – work fluency

SKILLS

- Highly innovative
- Project management
- Strong decision maker
- Complex problem solver
- Creative design
- Pragmatic

PROFILE

Senior Renewable energy expert and Electrical engineer, specializing in solar energy. Experienced with all stages of the development of solar projects. A highly qualified project Management with a Doctor of Business Administration. 19-years' experience in Software development, Electrical engineering and renewable energy. Author of 8 books on Renewable energy and Electrical Filed with more than 40 Published papers. Solar lecturer in Iran with more than 8-years' experience. Development of 100 MW solar projects. Designing 50 MW solar projects and Implementation of approximately 1 MW rooftop projects in Iran.

EDUCATION

- Doctor of Business Administration (DBA).
- Master of Renewable Energy.
- Bachelor of Electrical Engineering.

WORK EXPERIENCE

- Electrical and Renewable energy consultant (Freelancer)
- Renewable energy manager in Saman Energy
- Head of electrical engineering Department in Nagsh va andishe
- CTO at Applebone Company (Solar Energy and IT)
- CEO in Yeganeh Energy (Implementation of Solar Projects)
- Project engineer in Metka EGN (10 MW Solar Project)
- Project manager in Ehyafarayand (Electrical Fields)
- Head of software development in Aron company
- CEO in Idehpardazan (Software Development)
- Teacher in Etvto (Electrical installation)

- Team working
- TeamLeader

RESEARCH INTERESTS

- Renewable energy
- Artificial Intelligence
- Lightning and Grounding
- Electrical Software Development
- Carbon Trade
- Climate changes

TECHNICAL

CERTIFICATES

- Solar designing
- Lightning and Grounding
- Electrical Installation
- Installation inverter (Fronius)
- BS 7671-ISO50001
- Energy Management
- Energy Audit
- Zero Energy
- Crypto Currency and Trading
- Fire Alarm Designing
- High Rise Building designing
- Micro Grid
- IEEE for teaching
- Solar Project Development

HOBBIES AND FREE TIME

- Play setar
- Waking and GYM
- FIFA game on PlayStation
- Caffe shop
- Travel

AWARDS

- Selected as a creative researcher of 2023 by the International Academic Achievements and Award
- Selected as a Best Innovative Engineer in 2013 in Isfahan.
- Selected as Best author in Modern technology Journal in 2024
- Selected as one of the best BMS designing Plan by Isfahan University (2010).
- First Rank in Master of Renewable Energy.

PATENTS

- Electrical Installation software design.
- Lightning protection and Risk assessment software in solar farm.
- SPD software design

INNOVATION AND THE FIRST ONE IN IRAN

- Presenting the proposal to provide insurance for solar power plants for the first time in Iran and forming it in Saman Insurance.
- Creation of the largest and first telegram channel of electricity and energy in Iran and media sponsor of more than 50 seminars and webinars
- Designing the first low-energy government building in Isfahan province (Isfahan University)
- Design and implementation and measuring of the ground system using the Ufer method in a 90-unit building in Isfahan province.
- Collaboration in installation of the first 10 MW solar power plant in Iran.

JOURNAL EDITORIAL BOARD

- International journal of energy security and sustainable energy (www.iJesse.net)
- Journal of Modern Technology.

JOURNAL REVIEWER

- Journal of cleaner production in Elsevier (JCP)
- IEEE Latin America Transactions
- **Journal of contemporary Mathematics** (<https://ojs.wiserpub.com/>)
- Journal of Advanced research in fluid mechanics and thermal science.
- International Journal of Electrical and Computer Engineering (IJECE)
- Engineering Technology Open Access Journal (Juniper Publisher).
- International journal of energy security and sustainable energy (www.iJesse.net)
- International Journal of Renewable Energy Research-IJREER
- Academia.edu

MEMBERSHIPS

- Member of Professional team in Iran Engineer organization committee for providing Electrical instructions (2016-2018)
- Members of the scientific committee of the International Conference on Electrical Engineering and Intelligent Systems. (2023)
- Member of the board of Renewable energy committee in Isfahan (2020-2022)
- Member of INEC-TC99 (Electrical Installation Committee)

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- Member of INEC-TC81(Lightning and earthing committee)
 - Member of the Association of Electrical and Electronics Engineers.
 - Member of lightning Committee for providing Lightning Alarm System standard.
 - Member of the Iranian Engineering organization. (2009-2023). Professional engineering degree
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PUBLICATIONS

BOOKS

- Translate Wave and Tidal Energy book to the persian, Published with Arkan danesh
- Grid Connected solar Electric book. Published with Arkan Danesh
- Collaboration in “Distributed Energy Storage Systems for Digital Power system”, Publisher: Elsevier.
- Collaboration in “Integration of Carbon Reduction Techniques (CDR) and Emission Trading Mechanisms among MV-EHs, publisher”: WILEY and IEEE
- Grounding System and Lighting Protection of Photovoltaic SYSTEMS, PUBLISHER: Arkan Danesh
- Complete PVSyst Guide for Designing Grid-Connected Solar Power Plants, Publisher: Danesh Pazhohan
- Renewable Energy Technologies Textbook with RET Screen Software Education, Publisher: ARKAN Danesh
- Grounding and Bonding in Buildings. Publisher: Parto Negar.

ARTICLES

- Parhamfar, Mohammad; SADEGHKHANI, Iman; ADELI, Amir Mohammad. Towards the net zero carbon future: A review of blockchain-enabled peer-to-peer carbon trading. Energy Science & Engineering published by Society of Chemical Industry and John Wiley & Sons Ltd.2024. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/ese3.1697>
 - SREE, P. Bhavya, et al. A Light Weight Mobile Net SSD Algorithm based identification and Detection of Multiple Defects in Ceramic Insulators. Journal of Modern Technology, 2024, 59~ 74-59~ 74.
 - Mohammad Parhamfar; Alireza zabihi;Enhancing; Cyber Attack Detection in Microgrids for Resilient Energy Networks, Journal of Modern Technology.
 - Mohammad Parhamfar; Alireza zabihi;Enhancing; Strengthening Resilience: A Brief Review of Cybersecurity Challenges in IoT–Driven Smart Grids
 - ZABIHI, Alireza; PARHAMFAR, Mohammad. Frequency and Time Series Analysis of Surge Arrester in Power Distribution Systems. 2024.
 - Mohammad Parhamfar, Alireza zabihi. EMPOWERING THE GRID: TOWARD THE INTEGRATION OF ELECTRIC VEHICLES AND RENEWABLE ENERGY IN POWER SYSTEMS. International Journal of Energy Security and Sustainable Energy (IJESSE), Vol. 2, No. 1, 2024, <https://zenodo.org/records/12751722>
 - Parhamfar, Mohammad; Optimization of the Grounding System Design for a High Voltage Substation in Georgia Using CYMGRD Software Simulation.13th international conference on Electrical, Electronic Engineering and Smart Grids in Georgia.2024
 - Parhamfar, Mohammad; ADELI, Amir Mohammad. Towards the application of renewable energy technologies in green Airports: Technical and economic perspectives. IET Renewable Power Generation, 2024.
 - Parhamfar, Mohammad; SADEGHKHANI, Iman; ADELI, Amir Mohammad. Towards the application of renewable energy technologies in green ports: Technical and economic perspectives. IET Renewable Power Generation, 2023.
 - Alireza Zabihi, Mohammad Parhamfar, S.S.S.R. Sarathbabu Duvvuri, Milad Abtahi, Increase power output and radiation in photovoltaic systems by installing mirrors, Measurement: Sensors, Volume 31,2024,100946,ISSN 2665-9174,<https://doi.org/10.1016/j.measen.2023.100946>.
 - solar outlook report 2023, Mesia (Middle east solar association)
 - Parhamfar. Mohammad; Naghabi.Mina. A review of the history of perovskite cells and some simulations done. 8Th Annual Clean Energy Conference (ACEC2023).
 - Parhamfar, Mohammad. Lightning Risk Assessment Software Design for Photovoltaic Plants in Accordance with IEC 62305-2. Energy Systems Research, 2022, 5.2: 34-54.
 - Parhamfar, Mohammad; Feasibility Study and Design of Low-Energy Building Electrical Installations (Case Study: Isfahan University Virtual Faculty Building)
 - Parhamfar. Mohammad. Application of Blockchain and Artificial Intelligence in Peer-to-Peer Carbon Trading: A Review.
 - Parhamfar, Mohammad; NAGHAVIHA, davood; Improving Power quality of the Distribution Network by Connecting Photovoltaic Units in Order to reduce the harmonics Using Using the Network Active Filter. JSREAT 3 (Issues 1), 48-54
 - Parhamfar, Mohammad; ADELI, Amir Mohammad. The Study of Electrical Grid Components After Installing a 10 MW Photovoltaic Power Plant with Large-Scale Batteries at Peak Load by DigSilent Software. American Journal of Electrical Power and Energy Systems, 2022, 11.5: 97-107
 - SHOJAEIAN, Shahrokh; Parhamfar, Mohammad. An experience in the design, implementation and testing of concrete encased grounding electrode for a residential building.
 - Parhamfar, Mohammad; Adeli, Amir Mohammad. Large-scale renewable energy storage systems: studying the social benefits and utility of electricity market entry. The 6th National Conference on Electrical Engineering and Intelligent Systems.2022
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- Parhamfar, Mohammad; Adeli, Amir Mohammad. A review of energy storage technologies and their integration with renewable energy sources in microgrids. The 6th National Conference on Electrical Engineering and Intelligent Systems.2022
 - Parhamfar, Mohammad; Adeli, Amir Mohammad. Review of mitigation methods Far and near shading in solar power plants and how to simulate far shadows in PVsyst software. 7th Iranian Clean Energy Conference.2021.
 - Parhamfar, Mohammad; Adeli, Amir Mohammad. The economic evaluation of solar power plants (photovoltaics) using RETSCREEN software and software compatibility with the new tariffs of the Ministry of Energy (Case study: 10MW solar farm). 7th Iranian Clean Energy Conference.2021.
 - Parhamfar. Mohammad; Rezaei. Samira. “Optimization of LV Electrical Installation Design; Introducing Novel Software: ElecDesigner”, 1st International Conference on New Research Achievements in Electrical and Computer.2016
 - Parhamfar.mohammad. Optimizing power distribution in low Voltage systems with the help of advanced algorithms and using it in designs with the help of new electrical installation design software. The 14th Conference of Distribution Networks- Kerman.Iran.2010
 - Parhamfar.mohammad. Promotion of national building regulations in the design of electrical installation plans with the help of new electrical installation design software. Conference of National Regulations – Shiraz. Iran. 2009.
 - Parhamfar. Mohammad. Presenting a new software to optimize power distribution in the design and calculations of weak pressure systems. NEEC2008.
 - Parhamfar. Mohammad. Providing new solutions to optimize solar energy in buildings. Mazandaran.Iran.2007.
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