

Behrouz Rozmeh



My name is Behrouz Rozmeh and I was born in 1994, Tabriz, Iran. I have done M.Sc. in Power Engineering. I have a keen interest in modeling, reliability analysis, design, control and optimization of electrical machines, power electronic systems and **Inverter**. I have acquired proficiency in **HTML, CSS, Tailwind, JavaScript, React, and Next.js**. Motivated by my love for coding, I have independently developed several applications for personal projects and hobbies.

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Languages: Azeri (Mother tongue)
English (Fluent)
Persian (National)
Turkish (Fluent)
Japanese (Beginner)

DATE OF BIRTH: March,15,1994

EDUCATION

- ☐ **Master of Science in Power System Engineering (2018-2021)**
 - Department of Electrical Engineering, Islamic Azad University, Iran
 - GPA: 17/20 (85 %)
- ☐ **Bachelor of Science in Electrical Engineering - Power (2013-2017)**
 - Department of Electrical and Computer Engineering, Seraj Higher Education Institute, Tabriz, Iran
 - GPA: 16.01/20 (80.05 %)

Skills

- MATLAB Programming and Simulation tools, GAMS, DIgSILENT, PLC.
- HTML, CSS, JavaScript, React, NextJs, Tailwind.

PUBLICATIONS (Journal & Conference)

1. A Five-Level Transformer-less Grid-Tied Inverter Structure with Capacitive Voltage Divider Concept with Leakage Current Elimination (JF Ardashir, M Ghassemi, **B Rozmeh**, F Blaabjerg, S Peyghami, *IEEE Transactions on Industry Applications*, 2023).
2. A six-switch five-level Transformer-less inverter without leakage current for grid-tied PV system (JF Ardashir, M Gasemi, **B Rozmeh**, S Peyghami, F Blaabjerg, 2021 *IEEE Energy Conversion Congress and Exposition (ECCE)*, 2550-2556, 2021).
3. A Novel Boost Fifteen-Level Asymmetrical Flying-Capacitor Inverter with Natural Balancing of Capacitor Voltages (JF Ardashir, **B Rozmeh**, M Gasemi, AM Shotorbani, AA Ghavifekr, 2021 *12th Power Electronics, Drive Systems, and Technologies Conference ...*, 2021).
4. A novel five-level transformer-less inverter topology with common-ground for grid-tied PV applications (JF Ardashir, M Gasemi, S Peyghami, **B Rozmeh**, F Blaabjerg, 2021 *23rd European Conference on Power Electronics and Applications (EPE'21 ...*, 2021).
5. A thirteen-level flying capacitor based single-phase inverter with self-balancing capability (JF Ardashir, M Gasemi, **B Rozmeh**, S Peyghami, F Blaabjerg, 2021 *12th Power Electronics, Drive Systems, and Technologies Conference ...*, 2021).
6. A New 13-Level Flying Capacitor-based 1- ϕ Inverter with Full Reactive Power Support (J Fallah Ardashir, M Gasemi, **B Rozmeh**, *AUT Journal of Electrical Engineering* 54 (1), 15-28, 2022).
7. A Step-up Seven-Level Switched-Capacitor Inverter with Components Count Reduction for Grid-tied PV Systems Application (**B Rozmeh**, JF Ardashir, *TABRIZ JOURNAL OF ELECTRICAL ENGINEERING* 52 (3), 157-168, 2022).

Attended Courses & Workshops

- ☐ **PLC Operator- Class I (July 2018 – 272 hours)**
Iran Technical & Vocational Training Organization
- ☐ **Industrial Automation Operator (Aug 2018 – 511 hours)**
Iran Technical & Vocational Training Organization
- ☐ **Industrial Electrician – Class II (July 2019 – 1090 hours)**
Iran Technical & Vocational Training Organization
- ☐ **Industrial Hydraulics (Dec 2017 – 264 hours)**
Iran Technical & Vocational Training Organization
- ☐ **Industrial Pneumatics Operator (Nov 2017 – 410 hours)**
Iran Technical & Vocational Training Organization

- ❑ **Mechatronics Operator (Dec 2017 – 820 hours)**
Iran Technical & Vocational Training Organization
- ❑ **Calibration of Instrumentation (Aug 2017 – 60 hours)**
Iran Technical & Vocational Training Organization
- ❑ **Earth Installation Systems Design (Nov 2017 – 60 hours)**
Iran Technical & Vocational Training Organization
- ❑ **Industrial Automation Operator (Aug 2018 – 511 hours)**
Iran Technical & Vocational Training Organization
- ❑ **Entrepreneurship Skills (Oct 2017 – 47 hours)**
Iran Technical & Vocational Training Organization
- ❑ **Instrumentation (Aug 2017 – 450 hours)**
Iran Technical & Vocational Training Organization
- ❑ **Working with Advanced Instrumentation (March 2018 – 60 hours)**
Iran Technical & Vocational Training Organization
- ❑ **Voltage Control in Distribution Network (grid) using Dss (July 2017 – by Dr. Ehsan Reyhani)**
Iranian Association of Energy East Azerbaijan Branch held at Computer & Electrical Engineering Faculty of Tabriz university.
- ❑ **Demand Response Program (July 2017 – by Dr. Reza Ghorbani)**
Iranian Association of Energy East Azerbaijan Branch held at Computer & Electrical Engineering Faculty of Tabriz university.
- ❑ **Studies on Network of Renewable Energies using DlgSILENT (July 2017 – by Dr. Mohmoud Pesran)**
Iranian Association of Energy East Azerbaijan Branch held at Computer & Electrical Engineering Faculty of Tabriz university.
- ❑ **Studies on Network Connection of Wind Farms to Power Networks using PSS/E (July 2017 – by Dr. Amin Nasri)**
Iranian Association of Energy East Azerbaijan Branch held at Computer & Electrical Engineering Faculty of Tabriz university.

Work Experience

- ❑ **Electrical Engineer (Aug. 2018 - 2021)**
 - Radin Sanat Parlagh, Tabriz, Iran
 - **Projects:**
 - Established three solar farm over 15 Kw

- Earth Installation System design
- PLC

☐ **Tractor Company (Aug. 2018 - 2019)**

- PLC
- Automation

☐ **Teaching**

- PLC programmer [Tabriz, Iran](#)
- Sport coach for children [Tabriz, Iran](#)

☐ **Web developer (*build several websites as hobby*)**

- HTML
- CSS
- JavaScript
- React
- NextJs
- Tailwind

Memberships

- ☐ **Energy Association of Iran (www.iranea.ir)**
- ☐ **Voluntary Member of Iranian Blood Donation Center**