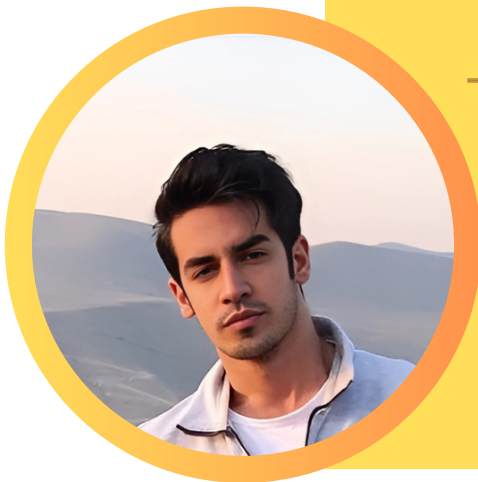


MILAD MILAN



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EDUCATION

Shahid Beheshti University, Tehran, Iran

Master of Power Electronics and Electrical Machines

2021-2023

- **Final Grade:** 3.65/4
- **Thesis Title:** Improving the Fault Tolerant Operation of a Active Nested Neutral Point Clamped (NNPC) Multilevel Inverter

Urmia University, Urmia, Iran

Bachelor of Electrical Power Engineering

2015 - 2019

- **Final Grade:** 3.07/4
- **Thesis Title:** Nested Neutral Point Clamped (NNPC) Multilevel Inverter: Identification and Diagnosis of IGBT Switch Failures

SKILLS

- MATLAB/MATLAB Simulink
- PLECS
- Altium Designer
- Code Composer Studio
- PVSyst
- Autocad
- Latex
- Photoshop

LANGUAGE

- Persian Native
- Kurdish Native
- English Advance
- Azari Advance
- Turkish Intermediate

SCIENTIFIC & WORK ACTIVITIES

12/2024- Present	Technical Manager and Project Coordinator • 20 MW Zarch Solar Power Plant • 14 MW Payam Solar Power Plant • 3 MW Saniyar Solar Power Plant • 1 MW Parand Rooftop Solar Power Plant • NouraTech, Tehran, Iran
10/2024- Present	Reasercher • Iran's National Elites Foundation • Tehran, Iran
07/2023- 10/2024	Electrical Supervisor • Tehran International Exhibition Centre • Tehran, Iran
09/2022- 05/2023	Teaching Assistant • Course: Power Electronics I (for master students) • Course: Power Electronics II (for master students) • Course: Design Power Electronic Converters (for master students) • Shahid Beheshti University, Tehran, Iran
10/2022- 08/2023	Research Assistant • Shahid Beheshti University, Tehran, Iran • Prof. Ebrahim Afjei
02/2019- Present	Research Assistant • Urmia University, Urmia, Iran • Dr. Yousef Neyshabouri

PROJECTS

01/2026- Present	20 MW Zarch Solar Power Plant
03/2025- 08/2025	14 MW Payam Solar Power Plant
02/2025- 07/2025	3 MW Saniyar Solar Power Plant
02/2025- 06/2025	1 MW Parand Solar Power Plant
05/2022- 06/2023	Implementing a High Gain Active-Switched Quasi Z-Source Inverter • At Power Electronics Lab of Shahid Beheshti University, Tehran, Iran
04/2022- 05/2023	Implementing the Fault Tolerant of Nested Pilot Neutral Point Clamped Inverter • At UTPowerElec Lab, Tehran University, Tehran, Iran • Under the supervision of Dr. Yousef Neyshabouri and Dr. Hossein Iman-Eini

- | | |
|-------------------------|--|
| 04/2022- 05/2023 | Implementing the Fault Tolerant of Nested Pilot Neutral Point Clamped Inverter <ul style="list-style-type: none"> • At UTPowerElec Lab, Tehran University, Tehran, Iran • Under the supervision of Dr. Yousef Neyshabouri and Dr. Hossein Iman-Eini |
| 06/2022- 01/2023 | Improving the Fault Tolerant Operation of 7L-CHB Inverter with Model Predictive Control Strategy <ul style="list-style-type: none"> • Urmia University, Urmia, Iran • Under the supervision of Dr. Yousef Neyshabouri |
| 12/2021- 05/2022 | Design and Improving the Fault Tolerant Operation of MMC- HVDC Systems in Fault Condition <ul style="list-style-type: none"> • Shahid Beheshti University, Tehran, Iran • Under the supervision of Dr. Hossein Kazemi Karegar |

PUBLICATIONS

- M. Hassanifar, **M. Shamouei-Milan**, K. K. Monfared, Y. Neyshabouri and H. Iman-Eini, "Open-Circuit Switch Fault-Tolerant Operation of Five-Level Nested Neutral Point Clamped Converter," in IEEE Journal of Emerging and Selected Topics in Power Electronics, doi: 10.1109/JESTPE.2025.3530344.
- **M. SHAMOUEI-MILAN**, R. ASGARNIA, M. G. MARANGALU, K. K. MONFARED, Y. NEYSHABOURI and H. VAHEDI, "A New Single-Phase High Step-Up Active-Switched Quasi Z-Source NNPC Inverter With Common Ground Feature," in IEEE Open Journal of Power Electronics, vol. 5, pp. 1002-1013, 2024.
- **M. Shamouei-Milan**, R. Asgarniya, M. G. Marangalu, M. R. Islam and A. Mehrizi-Sani, "A Single-Phase High Gain Active-Switched Quasi Z-Source NNPC Inverter," 2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT), Male, Maldives, 2023, pp. 1-6.
- R. Asgarniya, **M. Shamouei-Milan**, M. G. Marangalu, M. R. Islam and E. Afjei, "Design, Analysis, and Implementation of a Transformer-less Step-up Converter with Continuous Input Current and High Voltage Gain Ratio," 2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT), Male, Maldives, 2023, pp. 1-6.
- Panahi, A., Neyshabouri, Y., **Shamouei Dallaei Milan, M.** (2023). 'Improving the Tolerance of Power Semiconductor Switches Failure in an Active Rectifier Based on Cascaded H-bridge Multilevel Converter', TABRIZ JOURNAL OF ELECTRICAL ENGINEERING, 53(4), pp. 257-268.
- M. Hassanifar, **M. Shamouei-Milan**, and Y. Neyshabouri, "T-type Nested Neutral Point Clamped (T-NNPC) Multilevel Inverter: Identification and Diagnosis of IGBT Switch Failures," 2022 13th Power Electronics, Drive Systems, and Technologies Conference (PEDSTC), Tehran, Iran, Islamic Republic of, 2022, pp. 409-413.
- **M. Shamouei-Milan**, M. Hassanifar, Y. Neyshabouri, S. Golshannavaz and D. Nazarpour, "A New Hybrid T-type Nested Neutral Point Clamped (NNPC) Multilevel Inverter with Improved Voltage Balancing Strategy," 2020 28th Iranian Conference on Electrical Engineering (ICEE), Tabriz, Iran, 2020, pp. 1-6.
- M. Hassanifar, **M. Shamouei-Milan**, Y. Neyshabouri, D. Nazarpour and S. Golshannavaz, "Fast Detection and Localization of Open-Circuit Switch Faults in Nested Neutral Point Clamped (NNPC) Inverter," 2020 11th Power Electronics, Drive Systems, and Technologies Conference (PEDSTC), Tehran, Iran, 2020, pp. 1-6.