



PERSONAL INFORMATION

Ahmad Reza Karami shahnani

POSITION :STUDENT

Gender: male

Birth date: May , 10, 1998

Nationality: Iranian

EDUCATION AND TRAINING

- B.S in Power Electrical Engineering at K.N. toosi university on technology
2016 - 2020
Top student in bachelor's degree (17.37).
Thesis title: Optimization of Electrical DC Motor in Automobile Radiator.
- M.S in Power Electrical Engineering at K.N.toosi university of technology.
2020 - 2022
Field of Study: Power Electronic And Drives
Thesis title: Designing and Implementation a Sensorless Control Algorithm for a Sample Synchronous Reluctance PM Assisted Motor.
Top student in master's degree (19.21).

PUBLICATIONS

- R. Nasiri-ZARANDI, M. S. Toulabi and A. Karami Shahnani, "Two-Segment Magnet Transverse Flux Ferrite PM Generator for Direct-Drive Wind Turbine Applications: Nonlinear 3-D MEC Modeling and Experimental Validation," in IEEE Transactions on Energy Conversion, doi: 10.1109/TEC.2022.3146547.

- R. Nasiri-Zarandi, A. Karami-Shahnani and M. S. Toulabi, "Performance Comparison Between Rare-Earth and Ferrite-based PM Transverse Flux Generators for Small-Scale Direct-Drive Wind Turbine," IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021, pp. 1-6, doi: 10.1109/IECON48115.2021.9589107.
- رضا نصیری زرنندی، احمدرضا کرمی شهنانی «اصول مدلسازی، طراحی و تحلیل ژنراتورهای شار متقاطع اتصال مستقیم برای توربین‌های بادی مقیاس کوچک»، NRI Press، تهران، ۱۴۰۰.
- A. Karami-Shahnani, R. Nasiri-Zarandi, K. Abbaszadeh and A. Jamalifard, "Proposing an Effective Armature Winding for a Small DC Motor using Sensitivity Analysis Based Algorithm," 2021 12th Power Electronics, Drive Systems, and Technologies Conference (PEDSTC), 2021, pp. 1-5, doi: 10.1109/PEDSTC52094.2021.9405854.
- رضا نصیری زرنندی، احمدرضا کرمی شهنانی "مقایسه عملکرد ژنراتور شار متقاطع با آهنربای فریتی و NdFeB با آرایه هالباخ و ارائه طرح‌هایی برای استفاده در توربین بادی اتصال مستقیم"، سی و چهارمین کنفرانس بین‌المللی برق، آذر ۱۳۹۸.

RESEARCH INTEREST

- Electrical machine control
- DC-AC converter and electrical drives
- Electrical machine design
- Microcontroller programing

CONTACT INFORMATION

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