MOHAMMADAMIN MAHDIAN

Electronics Engineer

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EXPERIENCE

Research Assist

University of Kashan

Oct. 2020 – Ongoing | Iran

- Doing research on Photonic Integrated Circuits (PICs)
- Published 2 papers in journals of Microwave and Optical Technology Letters and International Journal of Electronics and Communications.
- Currently working on Terahertz waveguides. My latest paper is going to publish soon about a Novel Terahertz Waveguide power divider.

M.Sc. Electrical Engineering- Electronics

University of Kashan

Sept.2016 — June.2018 | Iran, Kashan

- Graduated as ranked 1st GPA among the graduating class of 2018.
- Researcher at Dr. Nikoufard's Lab.
- Published 3 papers in Annual Physics Conference of Iran.

B.Sc. Electrical Engineering- Control Engineering

Vali-e-Asr University of Rafsanjan

Sept.2012 — Sept.2016 | Iran, Kerman

- Teaching assistant of Electronics II in Vali-e-Asr university of Rafsanjan for two semesters of 2015-2016 (Troubleshooted the students' problems in the Electronics II course.).
- taught hardware design to first-year students at the Vali-e-Asr university of Rafsanjan.
- Accompanied Vali-e-Asr university of Rafsanjan students' team In student festival of Iran Open.

PUBLICATIONS

- A novel structure based on ridged gaped waveguides for terahertz applications. In preparation for the IEEE Journal of Lightwave Technology. (**M. A. Mahdian**, M. Nikoufard 2021)
- **M. A. Mahdian**, M. Nikoufard, and F. Soleimannezhad. Effect of etching depth on the performance of InP-based hybrid plasmonic waveguides. International Journal of Electronics and Communications 2020. https://doi.org/10.1016/j.aeue.2020.153403
- F. Soleimannezhad, M. Nikoufard, and **M. A. Mahdian**. Low-loss indium phosphide-based hybrid plasmonic waveguide. Microwave and Optical Technology Letters 2020. https://doi.org/10.1002/mop.32488
- F. Soleimannezhad, **M. A. Mahdian**, and M. Nikoufard. Investigation of Effective Parameters on Coupling Length in Deeply Etched Directional Hybrid Plasmonic Coupler Based on InP. Annual Physics Conference of Iran. Aug. 2019. Tabriz, Iran.
- **M. A. Mahdian**, M. Nikoufard, and F. Soleimannezhad. Effect of Etch Depth on Design of InP Based Multi-Mode Interferometer. Annual Physics Conference of Iran. Aug. 2017. Qazvin, Iran.
- F. Soleimannezhad, **M. A. Mahdian**, and M. Nikoufard. Effective Mode Area and Propagation Length of Deeply-etched InP-Based. Annual Physics Conference of Iran. Aug. 2017. Qazvin, Iran.

LIFE PHILOSOPHY

"But there's a big difference between "impossible" and "hard to imagine." The first is about it, the second is about you!"

AWARDS & HONORS

1^{st} GPA
Ranked 1st GPA among the graduating class of 2018 in the master's program at Kashan University

3^{rd} GPA
Ranked 3rd GPA among the graduating class of 2016 in the undergraduate program of Vali-e-Asr University of Rafsanjan.

STRENGTHS

Problem Solving | Academic Writing | passionate learner | self study

Integrated optic simulation | PCB designing | Programming in C/C++ and Python

LANGUAGES

Persian
English

REFEREES

Prof. Mahmoud Nikoufard
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Department of Electronics
Faculty of Electrical and Computer Engineering

Prof. Daryoosh Dideban
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Department of Electronics
Faculty of Nanoelectronics