



# Noam Smilovich

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## EDUCATION

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### MSc in Software Engineering

2022 – 2024

*San José State University, San José, CA*

- Thesis: Data-Driven Control of Acoustic Waves Using Movable and Flexible Scatterers.
- Thesis Advisor: Dr. Stas Tiomkin

### MSc in Electrical and Electronics Engineering

2017 – 2020

*Tel Aviv University, Tel Aviv, Israel*

- Thesis: Ka-Band Power Amplifier and Digitally Controlled Attenuator in CMOS 130nm.
- Thesis Advisor: Prof. Eran Socher

### BSc in Electrical and Electronics Engineering

2014 – 2018

*Tel Aviv University, Tel Aviv, Israel*

## AWARDS

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### Research, Scholarship, and Creative Activity (RSCA) Fellowship

2024

- A competitive award for scholarly and creative activities, College of Engineering at San Jose State University.
- Award amount: \$3,000.

### Outstanding Thesis Award

2025

- University-wide award for the most outstanding master's thesis published in 2024–2025, granted by the College of Graduate Studies at San José State University.
- Award amount: \$1,000. Presented at the University Commencement Ceremony.

## PUBLICATIONS AND PRESENTATIONS

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### Publications

- **N. Smilovich**, "Data-driven control of acoustic waves using movable and flexible scatterers," M.Sc. thesis, San Jose State Univ., San Jose, CA, 2024.
- T. Shah\*, **N. Smilovich\***, S. Gerges, F. Amirkulova, S. Tiomkin, "Acoustic Wave Manipulation Through Sparse Robotic Actuation," in *Proceedings of the IEEE International Conference on Robotics and Automation*, 2025.
- **N. Smilovich**, "Ka-band power amplifier and digitally controlled attenuator in CMOS 130nm," M.Sc. thesis, School of Electr. Eng., Tel Aviv Univ., Tel Aviv, Israel, 2020.
- S. Londhe, **N. Shmilovitz**, S. Avner, N. Bar-Helmer, S. Jameson and E. Socher, "34-42GHz CMOS Transceiver Frontend for Versatile Arrays," 2020 15th European Microwave Integrated Circuits Conference (EuMIC), Utrecht, Netherlands, 2021, pp. 73-76.

## **Presentations**

- T. Shah\*, **N. Smilovich\***, S. Gerges, F. Amirkulova, S. Tiomkin, “Acoustic Wave Manipulation Through Sparse Robotic Actuation,” poster presented at Research Showcase during Board meeting at the CS Department, Texas Tech University, Oct 2024, based on the paper under review.

## **EXPERIENCE**

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### **Research Assistant**

2025

*Computational Intelligence, Control & Information Lab, Texas Tech University, Lubbock, TX*

- Research hybrid dynamical systems in robotics, focusing on information-theoretic control and learning-based methods to analyze and optimize behavior in non-differentiable, contact-rich environments.

### **Research Assistant**

2024

*Computational Intelligence Lab, San Jose State University, San José, CA*

- Research and development of machine learning approaches for controlling acoustic wave propagation, incorporating state-of-the-art AI architectures and predictive modeling techniques.

### **Instructional Student Assistant – Data Structures and Algorithms in C++**

2023

*College of Engineering, San Jose State University, San José, CA*

- Provided instructional support for the course by grading assignments, addressing student inquiries, and managing grade appeals.

### **Media Architecture Systems Engineering Intern**

2023

*Micron Technology, San José, CA*

- Developed system architecture validation tools for NAND flash memory command sequences, improving reliability and testing efficiency.

### **System Integration Engineer – 5G Modem**

2020 – 2021

*Qualcomm, Israel*

- Contributed to system integration and validation efforts for 5G modem development, focusing on performance optimization and cross-functional feature implementation.

### **Research Assistant**

2017 – 2020

*Faculty of Engineering, Tel Aviv University, Israel*

- Designed RFICs as part of a research group, with circuits sent for tape-out, followed by post-fabrication testing and characterization in the university’s high-frequency integrated circuits lab.

### **Lab Instructor - Analog Circuits Lab**

2017 – 2020

*Faculty of Engineering, Tel Aviv University, Israel*

- Provided instructional support by conducting tutorials, grading assignments, addressing student inquiries, and managing grade appeals.

## **VOLUNTEER EXPERIENCE**

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### **Research Mentor**

2024

*San Jose State University, San José, CA*

- Conducted instructional tutorials and participated in weekly mentoring sessions to guide high school and community college students on a project at the intersection of acoustics research and machine learning.

## OPEN-SOURCE CONTRIBUTIONS

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### Waves.jl

2024

- Enhanced the Waves.jl simulator and its deep learning model by extending configuration options, improving flexibility, and supporting more diverse use cases in wave physics simulations.

Repository: <https://github.com/gladisor/Waves.jl>