

**ANCA L. SALA, Ph.D.**  
**Higher Education Consultant**  
**Optiel LLC**

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## **Experience**

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### **NSF Advanced Technological Education (ATE) Program**

2023 - present Evaluator of engineering technology and advanced manufacturing projects

2022 - present Mentor with Mentor-Connect

Subject matter expert, developer of advanced technologies educational materials

2013 - 2021 PI in engineering technology projects, Co-PI in MPEC Regional Center

### **ABET**

2019 - present Program Evaluator for the Engineering Accreditation Commission

### **Kettering University, Flint MI**

2022 - present Contributing Faculty, Electrical and Computer Engineering Department

### **Baker College, Flint MI**

2012 - 2021 Dean of Engineering and Information Technology

2006 - 2011 Department Chair for Engineering

### **Lawrence Technological University, Southfield MI**

2005 - 2006 Adjunct Professor, Electrical Engineering and Physics

### **JDS Uniphase, Milpitas CA**

2000 - 2005 Research and Development Engineer

## **Education**

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- **Ph.D.** Physics, The University of Toledo, Toledo, OH
- **M.S.** Electrical Engineering, Polytechnic University of Bucharest, Bucharest, Romania
- **B.S.** Electrical Engineering, Polytechnic University of Bucharest, Bucharest, Romania

## **Awards & Honors**

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- **Notable Woman in STEM** by Crain's Detroit Business Magazine, May 2019
- High Impact Technology Exchange Conference **HI-TEC Educator of the Year** for contributions to advanced technological education, Jul. 2016

## Professional Membership

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- ASEE American Society for Engineering Education, member 2006 - present. Past Division Chair.
- IEEE Institute for Electrical and Electronic Engineers, member 2015 - present. Senior Member since Nov. 2018.
- Optica (OSA The Optical Society), member 1999 - present. Senior Member since May 2017.

## Grants

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- “Advancing Photonics and Laser Technician Education in Michigan”, **Principal Investigator**, NSF DUE #1700599, 2017 - 21.
- “MPEC Midwest Photonics Education Center”, **Co-Principal Investigator**, NSF DUE #1400561, 2014 - 18.
- “Michigan Photonics and Lasers Technician Education and Training”, **Principal Investigator**, NSF DUE #1304071, 2013 - 16.
- “Mechatronics and Robotics Active Learning Modules Using LEGO Educational Platform”, **Principal Investigator**, Baker College JEFF Grant, 2011 - 12.

## Presentations and Publications

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- M. Hasanovic, A. Sala, “Empowering Educators for the Quantum 2.0 Revolution”, ATE PI Conference, Oct. 2024.
- A. Michelen, R. Geer, M. Bograd, A. Sala, “NCAIST Northeast Consortia for Advanced Integrated Silicon Technology”, ATE PI Conference, Oct. 2023.
- A.L. Sala, “Fundamentals of Spectroscopy”, under NSF DUE #2055061, 2024.
- A.L. Sala, “Quantum Hardware and Software”, under NSF DUE #2055061, 2023.
- A.L. Sala, “Fundamentals of Lidar Technologies”, NSF ATE Central, 2021.
- A.L. Sala, “The Future of Product Design and Production: Combining AI, Big Data, MSV & 3D Printing”, Technology in Industry Report, Automation Alley 2021.
- A.L. Sala, P.A. Chatman, “5G - A Manufacturing Game Changer”, Technology in Industry Report, Automation Alley 2020.
- A.L. Sala, P. Wawrow, “Additive Manufacturing and Advanced Materials”, Technology in Industry Report, Automation Alley 2019.
- A.L. Sala, “Additive Manufacturing - Trends, Opportunities and Challenges”, Technology in Industry Report, Automation Alley 2018.
- A.L. Sala, “Integrated Photonics”, textbook published by NSF ATE OP-TEC, 2016.