



# Majid Ebnali Heidari

Technical Manager - Photonics,  
Ansys Elite Channel Partner - Ozen  
Engineering Inc

## BIO

With 15 years of experience as an associate professor focusing on teaching within the university, he has developed a strong expertise in the field of optics and photonics. He has made significant contributions to this field through the publication of over 80 papers with h-index of 20 .

## GOALS

Experienced educator and technical manager with a strong background in photonics and optoelectronics. Committed to delivering high-quality instruction and leading successful projects in the field. Seeking opportunities to leverage teaching expertise and industry experience to drive innovation and growth

## PROFESSIONAL

- ✓ Assistant Professor /Associate Professor at SKU, CEO of Payachip-2008-2021
- ✓ President of the Northern California Optica (Formerly OSA) - Optica Silicon Valley
- ✓ Technical Manager – Photonics- Ozen
- ✓ Link to Google Scholar profile [link](#)

## ANSYS EXPERIENCE

Majid entered the simulation field in 2003 and published his first paper on multichannel wavelength conversion in IEEE JLT in 2005. In 2009, he began modeling slow light in silicon photonic chips, with his paper on slow light receiving over 300 citations. Starting in 2010, he utilized Lumerical for PIC design. Throughout his academic career, he consistently worked with Lumerical. Upon joining Ozen, he expanded his expertise to include Zemax and Speos.

## SPECIALTIES

- Optical design and modeling
- Developing systems with mixed optical, analog, and digital signals
- PIC component level design

## RESEARCH INTERESTS

- Nanostructure design
- Nonlinear Optics
- Medical imaging
- AI/ML



## PERSONAL

### INTERESTS

Traveling, Reading, Hiking,  
Spending time with family

### LANGUAGES

Persian, English

## COMPETENCIES

### SIMULATION



### ENGINEERING



### LEADERSHIP



### Ansys PHYSICS

