



## *RESUME*

*Parisa Naghinazhadahmadi*

### *Contact Information*

**Home Address:**

Ankara, Cankaya, Dikmen, Malazgirt Mahallesi, 1017 SK, 13/5

**GSM:** 0542 286 2160

**E-mail:** [parisa.naghinazhadahmadi@metu.edu.tr](mailto:parisa.naghinazhadahmadi@metu.edu.tr)

### *Educational Background*

PhD (Ongoing, 2<sup>nd</sup> semester)

- ✓ GPA: 3.57/4

M. Sc.

- ✓ Electrical Engineering-Electronics, Azad University of Iran, Tabriz Branch
- ✓ Thesis: **Design and simulation of Organic Light Emitting Diode (OLED)**
- ✓ G.P.A: 18.20/(20)

B.Sc.

- ✓ Electrical Engineering-Electronics, Azad University of Iran, Tabriz Branch
- ✓ G.P.A: 15.03/20.

### *Research Projects*

- ✓ MEMS-based Microbial Fuel Cells, TÜBİTAK 113E195 (Researcher)
- ✓ Accurate Electromagnetic Analysis and Optimizations of Photonic Crystals Involving Dielectric Rods (DEMOS), TÜBİTAK -1001 (Researcher)

### *Projects*

- ✓ Rapid melt Growth of Germanium Simulation by Finite Element Method (Term Project at MNT)
- ✓ n-Type Base Crystalline Silicon Solar Cells and their Emergence (Term Project at MNT)
- ✓ Shape and Size Control of Substrate-Grown Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy Detection of Chemical Analytes (Term Project at MNT)
- ✓ Design of a 100 MHz-10 GHz 4-Bit pHEMT Digital Step Attenuator (Term

<p>Project at EE)</p> <ul style="list-style-type: none"> <li>✓ Design of a low power SRAM array and CLA adder (Term Project at EE)</li> <li>✓ Design of current comparator circuit (Term Project at EE)</li> </ul>
<b><i>Teaching &amp; Working Experiences</i></b>
<ul style="list-style-type: none"> <li>✓ Teaching assistant at TED University from 2018 to present.</li> <li>✓ Lecturer of ELECTRICAL CIRCUITS, at Azad university of Mameghan, Sama Technical &amp; Vocational College, Mameghan, Iran</li> <li>✓ Lecturer of ANALOG ELECTRONICS LABORATORY, Azad University of Mameghan, Sama Technical &amp; Vocational College, Mameghan, Iran.</li> <li>✓ Lecturer of SYSTEMS AND CONTROL (Theory and Lab.), Azad University of Iran, Sofian Branch.</li> <li>✓ Research Engineer at Petrochemical Company of Tabriz (Polynar)</li> </ul>
<b><i>Publications</i></b>
<ol style="list-style-type: none"> <li>1- Ayan, A., Turkay, D., Unlu, B., <b>Naghinazhadahmadi, P.</b>, Oliaei, S. N. B., Boztug, C., &amp; Yerci, S. (2019). <b>Strain engineering of Germanium Nanobeams by electrostatic Actuation. Scientific reports</b>, 9(1), 4963.</li> <li>2- Rostami,A., Janabi-Sharifi, F., and <b>Naghinazhadahmadi, P. , Finite Difference Modeling of Bipolar OLED, ISOT 2010 International Symposium on Optomechatronic Technologies 25-27 October 2010, Toronto, Canada</b></li> <li>3- <b>P. Naghinazhadahmadi, Masumeh Alizadeh, Design and simulation of Organic Light Emitting Diodes(OLED's), 13th Iranian Student Conference on Electrical Engieering, September 2010, Tehran, Iran</b></li> </ol>
<b><i>Lingual Skills</i></b>
<p><b>Turkish (Azeri)&amp; Farsi:</b></p> <ul style="list-style-type: none"> <li>✓ I speak both of them as my native language.</li> </ul> <p><b>English:</b>  <b>TOEFL IBT:87</b>  <b>Reading:21 Listining:21 Speaking: 24 Writing:21</b></p> <p><b>Turkish (Istanbul):</b> Fluent.</p>
<b><i>Software and Programming Languages</i></b>
<ul style="list-style-type: none"> <li>✓ Programming Lang: MATLAB</li> <li>✓ Analysis Packages: COMSOL, HSPICE , PSPICE, CADENSE, AWR,CST</li> </ul>

***Courses taken at METU EE***

- ✓ Solid state devices (EE212 and EE419)
- ✓ Principles of modern optical systems
- ✓ BioMEMs and biosensors (EE515)
- ✓ Biomedical signals, instrumentation and measurement (EE416)
- ✓ Micro Electro Mechanical Systems (EE610)
- ✓ Introduction to VLSI design (EE413)
- ✓ Analog integrated circuits (EE510)
- ✓ Linear Systems theory (EE501)
- ✓ Medical Imaging (EE 519)

***Courses taken at METU MNT***

- ✓ Nanoscience and Engineering Principles
- ✓ Characterization techniques at the nanoscale (Course with labs)
- ✓ Solar Cells
- ✓ Optical Material and Spectroscopy
- ✓ Introduction to Nano optics
- ✓ Optical properties of semiconductors

***Research Interests***

- ✓ Nanostructures
- ✓ Opto\_electronics
- ✓ Photonics
- ✓ MEMS
- ✓ Micro and Nano Fabrication