

# Noha Moustafa

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## Summary

Final-year MSc candidate TU Delft. Studying wireless telecommunications and sensing systems. Experienced in wireless networks, cellular networks, performance analysis, signal processing, channel coding, and electronics.

## Education

- 2018 - 2022 **MSc Candidate, Telecommunications and Sensing Systems** - TU Delft - Netherlands
- Statistical Digital Signal Processing • Wireless Networking • Estimation and Detection
  - Wireless Communications • Applied Convex optimization • Information Theory
  - Cellular Networks • Performance Analysis • Ad Hoc Networks • Data Analysis
- 2016 - 2018 **MSc Candidate, Wireless Telecommunications** - Mansoura University - Egypt
- Non-Orthogonal Multiple Access • Smart Cities and IoT
  - Cognitive Radio and Spectrum Sharing
- 2011 - 2016 **BSc Computer and System Engineering** - Mansoura University - Egypt
- Thesis: Implementation of DC micro smart grid using renewable energy
- Digital Signal Processing • Communication Networks • Electronic Circuits • Electromagnetics
  - Communications Theory • Integrated Circuits • Circuit Theory • Linear Systems and Networks
  - Mobile Communication Systems • Optical Communication Systems • Logic Circuits • Mathematics

## Experience

- 2016 - 2018 **Research and Teaching Assistant** - Faculty of Engineering, Mansoura University - Egypt
- Cooperated in teaching and preparing course materials in Electronics and Communications
  - Evaluated students' performance through assignments and projects
  - Co-supervised graduation projects of undergraduate students

## Internships

- 8-9.2015 **Summer Intern** - Benha Electronics - Egypt
- Designed circuit boards using CAD and made PCB layout
  - Performed troubleshooting for electronic boards
  - Covered few topics in radar production
- 8.2015 **Summer Intern** - Zewail City for Science and Technology - Egypt
- Simulated problems with COMSOL
  - Attended an introductory course in quantum mechanics
- 7.2014 **Summer Intern** - Telecom Egypt - Egypt
- Learned about various technologies: transmission, digital microwave radio, telephone network planning
  - Hands-on training in different infrastructures: coaxial cables, copper wires, twisted pair, optical fiber

## Student Activities

- 2015 - 2016 **Secretary** - IEEE, Mansoura Student Branch - Egypt
- Documented events, meetings, and competitions
  - Participated in skill development workshop
- 2015 **Marketing Member** - IEEE, Mansoura Student Branch - Egypt
- Got disciplines of creating marketing strategies and content
  - Led a Facebook campaign for promoting one of our activities
- 2014 - 2015 **Public Relations Member** - IEEE, Mansoura Student Branch - Egypt
- Publicized news about activities through social media
  - Presented in events • Facilitated the logistics of some events
- 2014 **Participant** - Workshop: InnovEgypt Camp and Intel Ideation - Egypt
- Grasped the concepts of constructing business model to solve national issues

## Skills

- Technical
- Simulation: MATLAB, Protous, LabVIEW, Multisim, CAD and COMSOL
  - Networks: Toplogy (MiniNet, SDN), Analysis (Wireshark)
  - Electronics: PCB, PIC, Arduino • Programming: Python
- Personal
- Skills gained through postgraduate studies, summer internships, and student activities
- Self-learning • Analytical Skills • Problem solving
  - Communication • Presentation • Teamwork
- Languages
- English: Professional working proficiency
  - Arabic: Native

Last update: 07 Jun 2021