

Mustafa Oztoprak

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EDUCATION

Dekalb, IL

Northern Illinois Universty

Spring 2020-Current

Major:M.S.E. in Electrical Engineering GPA:3.35

Coursework: Digital Speech Processing, Adaptive Signal Processing, Digital and Analog Communication Systems,
Random Signal Processing, Artificial Intelligence, Digital Filter Design, Advance Microwave Circuit and Devices

Adana , Turkey Cukurova University Fall 2013-May 2017

Major: B.S.E in Electrical Engineering GPA:2.9
 Coursework: Computer Network, Algorithms, Embedded Systems, IoT, Circuits, Logic Design, VLSI Design, Signal Processing

EMPLOYEMENT

Teaching/Research Assistant

Northern Illinois Universty

Fall 2020-Current

- · Courses: Signals and Systems, Introduction to Computer Engineering, Communications Systems
- · Started to work as a RA in Fall 2021; currently working with Dr. Lichuan Liu on speech and language processing.
- Projects: Active Noise Control(ANC), Children speech recognition (Create Center NIU)

Electric Project Engineer

EneriiS/

Sep 2017-May 2019

- Improving the design, performance, and efficiency of the existing electrical network
- Using computer-assisted engineering and design software: schematic entry (OrCad, Eagle, etc.) and PCB layout (PADS/Mentor Graphics, Eagle, etc.) circuit analysis software (such as PSpice), including design and layout techniques to assure EMC performance of PCB s and products
- Reading electrical design specifications, technical drawings, and technical regulations.

Network Engineer, Intern

Turkcell

Aug 2017-September 2017

- Implemented and designed communication protocols such as UART, SPI and implemented those protocols using FPGA by VHDL.
- Designing TCP/IP Protocol with Raspberry Pi 3
- Attending meetings, writing reports, and giving presentations to managers and clients

TECHNICAL EXPERINECE

Projects

- Personal Website: www.oztoprakmustafa.com (for additional information and projects)
- Sound Classification: A method is to launch several objects multiple times and try to identify the object only by sound and try to estimate distance or size by rebounding sounds.

Utilized: Python, Colab, Keras, CRNN, PCM, Cloud Storage

• Speech Feature Extraction: In this project, LPC, LPCC, MFCC< BFCC feature extraction techniques for recognition of female and male voices have been studied and corresponding recognition rates are compared.

Utilized: Matlab, OpenCV, Digital Signal Processing, Audio Processing

• Optical Character Recognition: Digitizing of printed or handwritten texts so that they can be electronically edited, searched, stored, more compactly displayed online, and used in machines.

Utilized: Deep learning, Image Recognition, Text Recognition, Matlab, C, C++

- Active Noise Cancellation: The project aims to demonstrate various ANC and their applications Utilized: LMS, DSP, FxLMS, FuLMS
- UART with VHDL: Understanding the basic concepts of UART communication protocol and testing it using FPGA. Utilized: FPGA, VHDL, UART, SPI, Circuit Design

SKILLS

Software: (proficient): Matlab, Pyhton, C#, Pspice, R, (familiar): C++, SQL, HTML/CSS,

Hardware: FPGA, Arduino, Raspberry Pi, BeagleBone