# Résumé

# Cetin Kaya

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## EDUCATION

Kocaeli University Electronics and Communications Engineering 4th Degree 2015-2020

Concentration: Embedded System Design, Web Development, Network Systems.

## JOB EXPERIENCE

### Intership

LN Computer 26/07/2019-27/08/2019

- In this intership I worked on Cisco Packet Tracer program.
- I learned Cisco Switch and Router NAC (Nerwork Access Control) configurations, VLAN definitions, virtual system installation in Cisco Packet Tracer.

### Volunteer Experience

Kennywood Amusement Park, Food and Beverage Attendant, USA June 2017-Septenber 2017

- I worked here as a part of work and travel program.
- Even though it is not my profession, I've gained valuable experience such as English speaking, working as a team, communication with customers and met with people from different cultures.

## SKILLS

| Hardware | Programming | Software | Front-End | Back-End | Database | Operating Systems |
|---|---|---|---|---|---|---|
| MSP430 | C | Altium | HTML | PHP | MySQL | MacOS |
| STM32 | C# | Keil | CSS | Python | | Linux |
| RaspberryPi | MATLAB | IAR | JavaScript | | | Windows |
| Arduino | VHDL | Dreamweaver | Bootstrapt | | | |
| PSOC | Assembly | Fusion 360 | | | | |
| PIC | | Multisim | | | | |
| | | LabVIEW | | | | |
| | | XILINX Vivado | | | | |

## PROJECTS

**Web Control Smart Home: Mar.-May 2019 Github Website Demo**

The server runs on the Raspberry Pi and for the web side of the project. I've utilized HTML, CSS, MySQL, PHP and to control hardwares, such as servos, LEDs, fans etc. I've used Python as a choice of programming language. The webpage runs on my personal website and can be accessed from anywhere in the world.

**Capacitive Touch Buttons & Slider: May 2019 GithubDemo**

Designed and printed a single side PCB in Altium Designer and the PCB has built in buttons and sliders. The capacitance is measured with microprocessor MSP430.

**Concept Smart Home Project: Sep.-Dec. 2018 Github Demo**

Designed a smart home concept and implemented a GUI in C# to control household appliances. It also has other features such as door security system. The hardware side of the project implemented in Arduino and communication between Arduino and the computer achieved using the serial protocol.

**Security System: May 2018 Github Demo**

The security system detects both motion and flames. As a motion sensor PIR-based sensor is used, as a flame sensor, I've used a IR sensor because a flame emits 760 nm - 1100 nm wavelength. To make this system even more functional, I've setup a Raspberry Pi with a camera. The camera takes a picture when the motion or flame is detected and sends the picture via e-mail.

**Color Detection Circuit: Mar.-May 2018 Github Demo**

I've designed this circuit for a class as a final project. It utilizes the TCS3200 sensor to convert, light to frequency and then this frequencies compared in MSP430 microprocessor to evaluate the color. Also designed a compact PCB for the circuit.

**3D Printer: Feb. 2018**

While I design hardware and software side of the projects, I also need custom made parts to achieve my goals in the projects. Since the 3D Printer has these capabilities, I've designed and built a 3D printer. My goal for this printer was to make it cheap but with enough functionality to meet by needs.

**Digital Clock with Temperature: Oct.-Dec. 2017 Github Demo**

With Altium Designer, I've designed and printed double sided PCB for this project. The clock is also capable of measuring and displaying the temperature. It utilizes the MSP430 microprocessor.

## COMMUNITIES & CERTIFICATES & COURSES

- IEEE RAS(Robotics and Automation Society) 2015
- Getting Started with Python University of Michigan Mar. 2019
- Python Data Structures University of Michigan Apr. 2019

Nokia Network Training

- IP Basic Technology (TCP/IP, OSI, Internet Protocols)
- Router Routing Technology
- Network Fundamentals
- OSPF, IS-IS, BGP
- MPLS