

---

# Şakir Kaan Çetindağ

## Electrics & Electronics/Biomedical Engineer

[cetindag.kaan@gmail.com](mailto:cetindag.kaan@gmail.com)

[scetindag@ku.edu.tr](mailto:scetindag@ku.edu.tr)

### PROFILE

An all-around electronics engineer experienced in final product oriented design, who is interested in *in-vivo* medical applications and diagnostic/modulation processes. Actively looking for a PhD position in neuromonitoring/neuromodulation/neuroengineering field and is ambitious to be a part of an active group in a diverse and challenging research environment.

### EDUCATION

**Istanbul Technical University, Electronics and Comm. Dept., Istanbul** – *MSc Biomedical Engineering*

SEPTEMBER 2015 - JUNE 2017 (Expected)

#### Related Courses

Signal and Image Processing, Biomedical Signal Processing, Planar Waveguides and Integrated Optics, Biomedical Instrumentation

**Koç University, College of Engineering, Istanbul** – *BSc Electrical & Electronics Engineering*

SEPTEMBER 2011 - AUGUST 2015

#### Related Courses

Digital Signal Processing, Micro Electro-Mechanic Systems (MEMS), Introduction to Optics, Physiological Psychology, VLSI Design, Embedded Systems,

**American Collegiate Institute (ACI), Izmir** – *Science & Math (MF) Track*

SEPTEMBER 2007- JUNE 2011

### TECHNICAL SKILLS

**Proficient in** C, MATLAB, LTSpice, Python

**Intermediate in** LabVIEW, C++, VHDL, Verilog, COMSOL

**Beginner in** R, Java, HTML

### LANGUAGES

**Turkish** (Native language)

**English** (Fluent)

- IELTS Score: 8/9

**German** (Beginner)

---

## TECHNICAL EXPERIENCE

### **ITU Optoelectronic Devices Lab, Istanbul – Research Assistant**

SEPTEMBER 2015 – PRESENT

- High resolution, large spectral range speckle spectrometer to be used in OCT
- Integrated optics based refractive index sensor

### **University of Twente, Enschede, Netherlands – Research Intern**

AUGUST 2016 – SEPTEMBER 2016

- Spinal Cord Stimulation modeling on MATLAB and COMSOL
- NeuroAssyst Toolbox

### **KOC OML Lab, Istanbul – Undergrad Research Assistant**

FEBRUARY 2015 – APRIL 2015

- Fiber optic coagulation rate sensor

### **Pubinno, Istanbul – Embedded Systems Engineer**

OCTOBER 2015 – AUGUST 2016

- Creating libraries for implementing the GPRS connection of the device.
- Designed and implemented the UI/UX of the device.

### **TEKSAV, Izmir – Intern**

JUNE 2014 – AUGUST 2014

- Implemented a Kalman filter on a PIC to reduce the noise in the acquired ECG signal

## ACTIVITIES

- **Amateur drummer and sailor**
- **Licensed Basketball player**  
2005 – 2010
- **Koc University KURadio member**  
2011 - 2015, “Cogito”
- **Koc University IEEE Club Member**  
2011 – 2015

## REFERENCES

### **Fehmi Civitci, PhD**

Assistant Professor  
Electronics and Communications  
Engineering, ITU  
civitci@itu.edu.tr  
+905353473778

### **Onur Ferhanoglu, PhD**

Assistant Professor  
Electronics and Communications  
Engineering, ITU  
ferhanoglu@itu.edu.tr  
+905327499955