

# Rahmi Orhon Pak (Electronics Eng.)

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## OVERVIEW

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I am an electronics engineer with 15+ years of experience in analog-digital circuit design and embedded software.

Currently interested in power converters, audio amplifiers, radio electronics, and electric motors. Developing useful circuits. Programming. Computer aided design.

My research expertise was in developing photodiodes for radiation detection. Microelectronics, component engineering. Wide bandgap semiconductors for sensors and power components. Crystal growth.

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Teamwork, communication skills, and solution-oriented work are essential.



### Design Engineer

- I have advanced knowledge of circuit theory, electronics, and signal processing.
- I have experience in DC/DC converter design and power electronics design.
- I have experience in high-frequency magnetic element design.
- I have experience with switching elements (MOSFET, SiC, GaN, Gate Driver).
- I have advanced experience with embedded software and C programming.
- I have experience with analog and digital signal processing and computational tools (FFT, Kalman, PID, MATLAB, Octave, etc.).
- I am experienced in Schematic-PCB Design (KiCAD) and circuit simulation (LtSpice).
- I can use measuring instruments competently in the laboratory.

### Production Engineer

- I coordinate with field teams for troubleshooting and maintenance activities.
- I prioritize occupational safety and teamwork.
- I have low voltage experience.
- I have clean room experience.
- I have vacuum systems experience.
- I have experience in PLC programming, controls and automation.
- I can draw in AutoCAD.

## EXPERIENCES

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**Electronics Engineer (owner),**  
Electronics Department,  
Pak Consulting

**November 2020 – (Continued)**  
Istanbul, Turkey

**Senior Research and Development Engineer (staff),**  
Physics Department,  
Indiana University – Purdue University, Indianapolis (IUPUI)

**November 2019 – February 2020**  
Indianapolis, IN, USA

**Electronics Engineer (owner),**  
Electronics Department,  
Pak Consulting

**September 2018 – November 2019**  
Chicago, IL, USA

**Electronics Engineer (postdoc),**  
Materials Science Division,  
Argonne National Laboratory

**September 2017 – September 2018**  
Lemont, IL, USA

**Electronics Engineer (doctoral),**  
Electrical Engineering Department,  
University of South Carolina

**August 2012 – August 2017**  
Columbia, SC, USA

## **EDUCATION**

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**Doctor of Philosophy (PhD) in Electrical Engineering**  
University of South Carolina

December 2016  
Columbia, SC, USA

**Bachelor of Science (B.Sc.) in Electrical Engineering (magna cum laude)**  
University of South Carolina

May 2013  
Columbia, SC, USA

**Diploma, Science-Mathematics**  
American Robert College High School

June 2009  
Arnavutkoy, Istanbul, Turkey

## **LANGUAGES**

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English, Turkish: **Fluent** | French: **Intermediate** | German: **Beginner**

## **SKILLS**

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AutoCAD, C++, Python, MATLAB, Microsoft Office, Word, Excel, Powerpoint, Electronics, Data Analysis, Maintenance & Repair, Electronic Circuit Design, LTSpice, Spectroscopy, Octave, Pspice, LabView

## **OTHER INFORMATION**

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*Male.*

*Turkish citizen. (Republic of Turkey)*

*Born in 1991. (34 years old)*