ARDINC EDIS

Machine Learning Engineer

Contact Details

📞 +90 555 446 18 92

✉ ardinc.edis@gmail.com

🌐 Istanbul

🔗 https://www.linkedin.com/in/ardinc-edis-71773893/

Core Skills

- Deep Learning Methods
- Python (Anaconda Environment)
- Java / JavaScript / C
- MATLAB
- Oscilloscope Calibration
- Vivado / Tool Xilinx ISE
- Verilog / VHDL
- FPGA / ASIC Design
- Synopsys / Cadence Tool
- CMOS Technology

Professional Profile

After obtaining the Electrotechnics Engineer title at the University of Bochum, I worked as System Administrator in Dusseldorf for about one year. Then I had got an attractive job offer from TUBITAK Semi-Conductor Center YITAL and I moved from Germany to Turkey and I worked 20 years as an ASIC Design Engineer at YITAL. After nearby one year I worked at the new established Quantum Metrology Laboratory of TUBITAK UME. Then I worked at the Voltage Laboratory of this Institute and was responsible for Oscilloscope Calibration processes. Further I designed a FPGA-DAC system for Measurement Standards and tried to simulate a Battery Life Simulation in Python Anaconda environment for Digital Twin Project. After retiring from TUBITAK I studied Machine Learning to reinforce deep learning methods applied in Digital Twin Project, where I'm preparing a paper about "Battery Voltage Prediction Using LSTM".

Career Summary

Sep 1999 - Nov 2024   **TUBITAK, KOCAELI**
                            Electronics Engineer

Outline

Digital Twin, 2023 – 2024, TUBITAK-UME
• Implementation of a Battery Life Simulation with Deep Learning Methods in Python
FPGA-DAC, 2020 – 2023, TUBITAK-UME
• Creation of a Sinus Curve with a Xilinx KCU105 – TI DAC38J84 Evolution Board
$0.25\mu m – 0.7\mu m – 1.5\mu m$ CMOS – SiGe ASIC Design, 1999 – 2019, TUBITAK-BILGEM
• Digital Design: Boolean Cell Design
• NTDS High Voltage (24V) Chip Design
• 4-Quadrant- Photodiode Design
• PAD Design: Schmitt-Trigger, Level Shifter
• Mask Design:Vernier/Mark Test

Education

- **Machine Learning** | Stanford University | Mar 2025 - May 2025 | Coursera, 3 Courses :
  1- Supervised Machine Learning: Regression and Classification
  2- Advanced Learning Algorithms
  3- Unsupervised Learning, Recommenders, Reinforcement Learning
- **Master Science (Diplom-Ingenieur), Electrotechnics** | Bochum University | Oct 1989 - Feb 1998

Additional

Hobbies & Interests

Chess, Football, Photography, Travel

Languages

German, English , French

Publications

"ELECTROCHEMICAL SENSOR ARRAY AND APPARATUS", US 10,067,083 B2 04.09.2018, TUBITAK

Conference Attendance

• EUREKA 2023-2024, 13-14 June 2024, Kadir Has University – ISTANBUL
• FOTONIK 2023 Workshop, 08 September 2023, Koc University – ISTANBUL
• SCARD Analysis (2) , 19-21 March 2008, TUBITAK-UEKAE, KOCAELI
• Active & Passive SCARD Analysis, 05-06 November 2007, TUBITAK-UEKAE, KOCAELI