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engineering



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/gurtacyemiscioglu

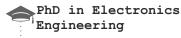


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Iskele, North Cyprus

EDUCATION



Thesis title: "VI SI Impler

"VLSI Implementation of Low-Power Arithmetic Circuits Based on Adiabatic Logic and Logarithmic Signal Processing."

University of Kent Canterbury, UK [2009 - 2015]



BEng (Hons)
Computer Systems
Engineering with a
year in industry.
Graduated with First
Class Honours.
University of Kent
Canterbury, UK
[2004 - 2009]

LANGUAGES





ABOUT ME

I am an enthusiastic electronic engineer, dedicated researcher, and passionate lecturer with an excellent eye for detail and a relentless drive to explore new ideas and foster creativity. With a strong background in digital design, I have honed my skills in developing cutting-edge solutions for complex engineering challenges that seamlessly integrate functionality and aesthetics. I am driven by curiosity and the pursuit of knowledge. I have spent countless hours immersed in the world of electronics, delving deep into the latest advancements and breakthroughs. This constant exploration allows me to bring fresh perspectives to my work and contribute to the ever-evolving field. I firmly believe in inspiring the next generation of engineers and designers. I take great pride in sharing my expertise and experiences with eager minds, nurturing their passion for electronics, and encouraging them to think critically and embrace creativity. It brings me immense joy to witness the growth and success of my students as they embark on their own transformative journeys. In all aspects of my work, whether it's designing intricate circuitry or delivering engaging lectures, I strive for excellence. I embrace challenges with enthusiasm, employing my meticulous nature to ensure the highest quality of work in every endeavour.

EXPERIENCE

<u>Academic</u>

METU NCC | lecturer |
Kalkanlı, North CY
electric circuits (EEE 209),
logic design (EEE 248 | CNG 232),
intro. to microprocessors (EEE 347 | CNG 336),
intro. to VLSI design (EEE 413)
online education coordinator of EEE,
lab commission representative of EEE,
minor program coordinator of digital electronics

EMU | lecturer | Famagusta, North CY

digital IC design (EENG 447), intro. to logic design (EENG 115), intro. to computers (ITEC 115), computing for pharmacy (ITEC 107), computing for education (BOTE 112), intro. to digital media (ITEC 185) [October 2015 - February 2019]

[October 2018 - July 2023]

CIU | lecturer | Haspolat, North CY

programmable control logic (EELM 415), advances on VLSI design (ELE 544) [October 2018 - February 2019]

University of Kent | lab assistant | Canterbury, UK

delivered lab tutorials, supervised experiments, graded assignments

[September 2009 - April 2014]

RESEARCH INTERESTS



<u>Industrial</u>

Doğankent Constr. | electronic engineer | Famagusta, North CY

home automation electronics set up for flats, houses and work places.

[April 2015 - October 2018]

Intel Corp. UK Ltd.| software engineer | Lincoln, UK

worked as an intern in a software team, coded firmware for demodulator and tuners, tested software produced for customers, performed WHQL tests for windows drivers, demoed products to internal groups

[July 2007 - August 2008]

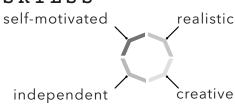
AWARDS

School Research Award |
University of Kent, Canterbury, UK |
[2009]

Outstanding Contribution Award |
Intel Corporation, UK |
[2008]

Divisional Recognition Award, | Intel Corporation, UK | [2008]

SKILSS





EXPERTISE





lecture preparation analytical thinking





research methods

time management





supervision

multitasking





project management management

team





problem solving

communication

RTL & CAD design tools

QCADesigner Proteus Quartus Modelsim

Atmel Studio

Xilinx Tools **Tanner Tools**

MATLAB

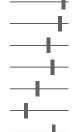
Coding

VHDL Verilog

System Verilog Assembly

Embedded C Visual C++

Latex



Operating Systems





Other Applications





PUBLICATIONS

A. Mamdouh, M. Mjema, G. Yemiscioglu, S. Kondo and A. Muhtaroglu, "Design of Efficient AI Accelerator Building Blocks in Quantum Dot Cellular Automata (QCA)," in IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, doi: 10.1109/JETCAS.2022.3202043.

S. Mohaghegh, S. Kondo, G. Yemiscioglu and A. Muhtaroglu, "A Novel Multiplier Hardware Organization for Finite Fields defined by All-One Polynomials," in IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, doi: 10.1109/TCSII.2022.3188567.

S. Mohaghegh, G. Yemişçioglu and A. Muhtaroğlu, "Low-Power and Area-Efficient Finite Field Multiplier Architecture Based on Irreducible All-One Polynomials," 2020 IEEE International Symposium on Circuits and Systems (ISCAS), 2020, pp. 1-5, doi: 10.1109/ISCAS45731.2020.9181179.

G. Yemiscioglu, and P. Lee, "Very-Large-Scale Integration Implementation of a 16-bit Clocked Adiabatic Logic Logarithmic Signal Processor," in IET Computers and Digital Techniques, 2015, 9: 239-247, doi: 10.1049/IET-CDT.2014.0102.

G. Yemiscioglu and P. Lee, "16-Bit Clocked Adiabatic Logic (CAL) logarithmic signal processor," 2012 IEEE 55th International Midwest Symposium on Circuits and Systems (MWSCAS), 2012, pp. 113-116, doi: 10.1109/MWSCAS.2012.6291970.

G. Yemiscioglu and P. Lee, "16-Bit Clocked Adiabatic Logic (CAL) Leading One Detector for a Logarithmic Signal Processor," PRIME 2012; 8th Conference on Ph.D. Research in Microelectronics & Electronics, 2012, pp. 1-4.

PROJECTS (supervised)

UAV fire extinguishing hexacopter | ESC graduation project |

[October 2022 - June 2023]

autonomous vertical farm | EEE graduation project |

[October 2022 - June 2023]

autonomous oil skimmer boat | EEE graduation project |

[October 2021 - June 2022]

electronic face mask | EEE graduation project |

[October 2020 - June 2021]

autonomous beach rover | EEE graduation project |

[October 2020 - June 2021]

VOLUNTEER

reviewer | IEEE TCAS |

IET Circuits, Devices & Systems | [2017 - 2019]

student ambassador | EDA,

University of Kent, Canterbury, UK | [2010 - 2014]

graduate student representative | ICES group,

School of Engineering and Digital Arts,

University of Kent, Canterbury, UK | [2010 - 2014]

event organiser | Turkish Cypriot society,

University of Kent, Canterbury, UK | [2010 - 2013]

president | Turkish Cypriot society,

University of Kent, Canterbury, UK | [2009 - 2010]

SOCIAL









