Ajinkya Bankar

FELLOWSHIPS

CONTACT INFORMATION	Dept. of Electrical & Computer Engg. Florida International University 10555 West Flagler St. EC 3753 Miami, FL 33174	.io
EDUCATION	Florida International University	
	Ph.D. Candidate, Electrical & Computer Engineering • Advisor: Dr. Gang Quan	2021
	Savitribai Phule Pune University	
	M.E., Electronics (Digital Systems)	2013
	B.E., Electronics & Telecommunication	2010
PEER-REVIEWED PUBLICATIONS	 Ajinkya S. Bankar, Shi Sha, Vivek Chaturvedi, and Gang Quan. 2020. "Ther Aware Lifetime Reliability Optimization for Automotive Distributed Coming Applications." 2020 IEEE 38th International Conference on Computer Del (ICCD), pp 498–505. doi:10.1109/ICCD50377.2020.00090. Shi Sha, Ajinkya S. Bankar, Xiaokun Yang, Wujie Wen, and Gang Quan. 2 "On Fundamental Principles for Thermal-Aware Design on Periodic Real-T Multi-Core Systems." ACM Transactions on Design Automation Electronic Systems 25(2):1-23. doi:10.1145/3378063. 	put- sign 2020.
	 Anjali S. Patil, Jayanand P. Gawande, Ajinkya Bankar. 2019. "Heart Son Signal Analysis and Its Implementation in VHDL." <i>Innovations in Electro and Communication Engineering</i> 33:221-228. doi:10.1007/978-981-10-8204-7 Ajinkya S. Bankar, Bhavika S. Shaha, P.K. Kadbe. 2013. "Interstage Pipe VLSI Architecture for 2-D DWT." <i>International Journal of Engineering Researd Technology</i> 2(5). 	nics 7_23.
CONFERENCE PRESENTATIONS	plications." 2020 IEEE 38th International Conference on Computer Design (ICC	Ap-
INVITED TALKS	Ajinkya S. Bankar. "Emerging Trends and Technology in Electronics." <i>Natio Webinar</i> , Tuljaram Chaturchand College, Baramati, India.	onal 2021
RESEARCH INTERESTS	Artificial Intelligence, Deep Neural Network Sensitivity Estimation, Thermal/aware Computing, Advanced Real-Time Computing System Design	Power-
AWARDS AND	"Dissertation Year Fellowship" University Graduate School, Florida Internation	

2021 - 2022

University, \$16,600

TEACHING EXPERIENCE

Florida International University

Department of Electrical & Computer Engineering

Teaching Assistant

• EEL 3712L: Logic Design I Lab	2021, 2020
• EEE 4304L: Electronics II Lab	2020
• EEL 4611: Systems Lab	2020
• EEL 4740: Embedded System Design	2019, 2018

Savitribai Phule Pune University

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering. & Technology

Assistant Professor

•	VLSI Design & Technology	2013 - 2017
•	Embedded Processor, Digital Signal Processing	2017 - 2018
•	Mini Project & Seminar	2014 - 2016

PROFESSIONAL EXPERIENCE

PROFESSIONAL Sujlam Electronics, Baramati, Maharashtra India

• Consultant 2016 - 2017

Solution was provided to interface alternating current of *C.T.* with PIC16F685 and software coding for read/write operations of internal *EEPROM* of the microcontroller.

RESEARCH GRANTS

A Pipeline VLSI Architecture for 2-D DWT

Board of College and University Development, Savitribai Phule Pune University, India, ₹ 170,000 2014 - 2016

- Role: Co-Principal Investigator
- The project carried processing unit's hardware optimization, and computation speed enhancement with pipelined architecture. Physical realization on *Digilent Genesys* 2 FPGA board for image compression.

TECHNICAL SKILLS

Machine learning library: PyTorch; **Languages:** Python, Matlab, C, C++, Embedded C, VHDL; **Optimization Solvers:** CPLEX, AMPL Knitro.

SERVICE Workshop Organization

- "Breath Meditation Workshop," Art of Living Foundation, for faculty, staff and students 2017, 2016, 2015, 2014, 2013.
- "National Instruments LabVIEW: Hands-on Workshop," Undergraduate Students, 2015.

Departmental Service

- Undergraduate students peer mentor (2016 2017)
- Undergraduate Project Coordinator (2014 2017)