Ajinkya Bankar

| CONTACT INFORMATION | Dept. of Electrical & Computer Engg. Florida International University 10555 West Flagler St. EC 3753 Miami, FL 33174 ■ abank013@fiu.edu ajinkyabankar.github ajinkya-bankar-fiu 0000-0003-1995-6232 | .io |
|-----------------------------|---|--------------------------------|
| EDUCATION | Florida International University | |
| | Ph.D. Candidate, Electrical & Computer Engineering | 2021 |
| | Advisor: Dr. Gang Quan | |
| | 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 De (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. Anjali S. Patil, Jayanand P. Gawande, Ajinkya Bankar. 2019. "Heart Sos Signal Analysis and Its Implementation in VHDL." Innovations in Electro and Communication Engineering 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." International Journal of Engineering Research Technology 2(5). | 2020. Time tems und mics 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>National 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 | |

University, \$16,600

FELLOWSHIPS

2022, 2021

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)