KHAN SHAIKHUL HADI

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PROFESSIONAL EXPERIENCE		EDUCATIONAL	
Research Assistant 2021-Present			Science Florida, USA
ARPERS RESEARCH GROUP, UCF Research Focus: Performance, correctness & crash recovery of parallel programming Teacher Assistant	f persistent memory system for	M.Sc. in Computer Science	Florida, USA
2022 SCHOOL OF ENGINEERING, UCF Course: CDA 5106 (Advance Computer Architecture). Research Engineer	♀ Florida, USA	UNIVERSITY OF CENTRAL FLORIDA (UCF) B.Sc in Electrical and Electronic En	gineering a, Bangladesh
BUET-ENERGYPAC RESEARCH COLLABORATION HEQEP Solution Designed and characterized BUET VLSI Standard Cell library			
RESEARCH & PUBLICATIONS		SKILLS	
Hardware Support for Durable Atomic Instruction Programming 2021-2022	ns for Persistent Parallel DAC'23	C++, Python, Bash script, Verilog, Mati	LAB
Developed a generalized solution to provide durable atomicis persistent memory machine BUET LED Driver Digital IC 2017-2018	ty for parallel programming in Fabricated on June, 2018	Specialized Tool GEM5 SIMULATOR CADENCE DESIGN SUIT SNIPER MULTI-CORE SIMULATOR	
Designed a mixed signal constant current LED driver controller using <i>BUET VLSI Standard Cell library</i> . Fabricated IC has been tested and analyzed for future development purpose		WORKSHOP & TRAINING	
Optoelectronic Properties of InGaAs/InP Single Photon Avalanche Diode 2016-2017 B.Sc. Thesis, ICTP'2017 Developed a MATLAB based simulation to model for InGaAs/InP based SPAD based on established theories. Work published on IEEE International Conference on Telecommunications and Photonics (ICTP)		Workshop on RISC-V Technology and SiFive Tutorial	
ACADEMIC PROJECTS		ONLINE CERTIFICATION	
8 bit Specialized SAP microprocessor 8-bit, single bus, 16 instruction SAP microarchitecture circuit win Proteus Circuit Simulator. C++ based compiler is designed to			Jul 2020 Architecture Aug 2020
to binary input for the circuit. Personal operating system Developed a personal OS from scratch to understand interacti Current state features boot-loader, interrupt handler, video dri		Unlocking Information Security	Aug 2020
Sentiment analysis of stocks from financial-news he back Analyze public sentiment for a company stock based on relevan	eadline with twitter feed-	IBM (COURSERA) Technical Support Fundamentals	Oct 2020
Language Toolkit (nltk) library.For each headline, relevant tw sentiment to re-evaluate public sentiment. Load-flow analysis tool			
MATLAB based Gauss-seidel load flow analysis tool with MATLA analyze up to 100 power grid bus Statistical data based smart traffic control system	AB GUI user interface and could	SCHOLARSHIP 2025 FCI Student Scholarship	

This traffic control system perform real time traffic data analysis for traffic predictability and UNIVERSITY OF CENTRAL FLORIDA

cell based design for ease of installation for developing and underdeveloped country.