KHAN SHAIKHUL HADI

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PROFESSIONAL EXPERIENCE		EDUCATIONAL	
Research Assistant		PhD in Computer and Information	n Science
2021-Present	💡 Florida, USA	On Going	
ARPERS RESEARCH GROUP, UCF		University of Central Florida (UCF)	
Research Focus: Data consistency and crash recovery for pa	arallel programming in persistent	Research: Computer Architecture	
domain		M.Sc. in Computer Science	
Teacher Assistant		2024	
2022	🗣 Florida, USA	University of Central Florida (UCF)	
SCHOOL OF ENGINEERING, UCF		B.Sc in Electrical and Electronic Engineering	
Course: CDA 5106 (Advance Computer Architecture).		2017	
Research Engineer		BANGLADESH UNIVERSITY OF ENGINEERIN	NG AND TECHNOL
2017-2018	Ohaka, Bangladesh	ogy (BUET)	
BUET-ENERGYPAC RESEARCH COLLABORATION HEQEP			
Designed and characterized BUET VLSI Standard Cell library			
RESEARCH & PUBLICATIONS		SKILLS	
Hardware Support for Durable Atomic Instructions for Persistent Parallel		Programming Language	
Programming		C++, PYTHON, BASH SCRIPT, VERILOG, MATLAB	
2021-2022	DAC'23	Specialized Tool	
Developed a generalized solution to provide durable atomicity for parallel programming in			
persistent memory machine		GEM5 SIMULATOR	
BUET LED Driver Digital IC		CADENCE DESIGN SUIT	
2017-2018	Fabricated on June, 2018	SNIPER MULTI-CORE SIMULATOR	
Designed a mixed signal constant current LED driver control	ller using BUET VLSI Standard Cell		
library. Fabricated IC has been tested and analyzed for future development purpose		WORKSHOP & TRAINING	
Optoelectronic Properties of InGaAs/InP Single F	· · ·	GEM5 BOOTCAMP 2022	
2016-2017 B.Sc. Thesis, ICTP'2017			
Developed a MATLAB based simulation to model for InGaAs/InP based SPAD based on es-			
tablished theories . Work published on IEEE International Conference on Telecommunications			
and Photonics (ICTP)		organizer .on We me a leee bandeabe	one bay
ACADEMIC PROJECTS		ONLINE CERTIFICATION	
8 bit Specialized SAP microprocessor		Introduction to Bash Shell Scripting	
8-bit, single bus, 16 instruction SAP microarchitecture circui	it with 64KB memory is designed	Project Network (Coursera)	Jul 2020
in Proteus Circuit Simulator. C++ based compiler is designed	d to convert assembly instruction	Fundamentals of Parallelism on Inte	el Architecture
to binary input for the circuit.		INTEL (COURSERA)	Aug 2020
Personal operating system		Unlocking Information Security	
Developed a personal OS from scratch to understand intera	action between OS and hardware.	TEL AVIV UNIVERSITY (ISRAELX)	Aug 2020
Current state features boot-loader, interrupt handler, video	driver.	IT Fundamentals for Cybersecurity	Specialization
Sentiment analysis of stocks from financial-news headline with twitter feed-		IBM (Coursera)	Oct 2020
back		Technical Support Fundamentals	
Analyze public sentiment for a company stock based on relevant news headlines using <i>Natural</i>		0.0	
Language Toolkit (nltk) library.For each headline, relevant tweets also analyzed for public			erating System
sentiment to re-evaluate public sentiment.		GOOGLE (COURSERA)	Oct 2020
Load-flow analysis tool		,	
MATLAB based Gauss-seidel load flow analysis tool with MAT	FLAB GUI user interface and could	CCHOLADCHID	
analyze up to 100 power grid bus		SCHOLARSHIP	
Statistical data based smart traffic control system		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.