Electrical Engineer Co-Op, Research Assistant for the advanced vehicular system, and 5G communication. Skilled in embedded system design, LabView, Python, Java, C++. Strong education professional with in-progress Bachelor's in Computer Engineering focused on Artificial Intelligence, Deep Learning, Neural Network, and Automation.

OBJECTIVE Secure a full-time job as an ele	ectrical and computer engineer.			
EDUCATION Bachelor's in Computer Engineering Associate in Science	Mississippi State University	Starkville, MS	12/2022	GPA 4.00
	El Centro College	Dallas, TX	05/2018	GPA 3.94

TECHNICAL SKILLS

Programming Language

C/C++, Python, Java (Advanced Hibernate Framework, Derby Database, Apache TomCat), JavaScript, SQL, Android, Backendless, RESTful API

Hardware:

Robot Operating Software (ROS), Embedded system design, 3D printing, 3D modeling in Solidworks, Arduino, Raspberry Pi, and other MCUs, OrCAD, Altium, Proteus, KiCAD, Quartus Prime, Vivado, LabView, Wireless Insite, PX4, Renesas's e² studio.

EXPERIENCE

WORK EXPERIENCES:

Hunter Engineering Company-Raymond Electronics Plant

Jan 2020-Present

- Electrical Engineer Co-Op: Design functional test fixtures to test PCBs that are manufactured at the Plant. Develop an executable operator-friendly program in LabView that can communicate with Microcontrollers. Circuit design in KiCAD/Altium, and create the test fixtures in such a way that they are Aegis Factory-Logix capable. Worked on a project to create C/C++ code integrated with LabView for a database required by quality control.
- Mississippi State University
 - Undergraduate Research Assistant: Cooperated with researchers in Advanced Vehicular System,
 Enabling technologies such as Lidar's, radars, and low-cost cameras, as well as powerful graphical
 processing units (GPUs) and the explosion of deep neural networks (OpenCV, TensorFlow) to detect
 lanes on different roads. Worked on various machine learning and deep learning techniques for
 Sensor Fusion for camera and lidar mostly using SqueezeSeg and TensorFlow. Working with a team
 of researchers to develop a cell phone tracking system inside a prison by implementing AI methods
 to create triangulation to pinpoint the cell phone using machine learning and Software Defined Radios.
 Working with a team of researchers from 5 universities and National Instruments in 5G Communication
 System research (using drones) as a Certified Part 107 FAA Drone Pilot. Experimenting with srsLTE/RAN,
 OAI, and Amarisoft technologies to understand and build 5G and beyond networks.

PROJECTS:

Personal Projects

2018 - Present

- Android Apps
 - Created an app that keeps track of local videos that are watched completely. The app consumes Google Search API and YouTube API (1 million quotas). Created another app for real-time temperature monitoring system for old servers' using Google Firebase and real-time database.

• **Robotics** 2018-2020

Built Soda can catcher, Line follower robot, Self-balancing robot, and obstacles avoiding robot.

Miscellaneous

2018-Present

- Successfully created a program using Google TensorFlow and its components to detect Dart
 Vader character from Star Wars in any given picture.
- Designed, simulated, and fabricated various embedded systems like drones, bench power
 Supply, and tire pressure monitoring system using microcontrollers and 315MHz receivers.
- Conducted several seminars on topics like analog circuit design, Arduino, and Raspberry Pi.

Phi Theta Kappa Honor Society - Sigma Tau Chapter

May 2018

 Developed two sections in Blackboard where students can see what events are happening on-campus and a list of organizations available on campus.

LEA	DERSHIP EXPERIE	NCE	
*	President	Nepalese Student Association – NSA-MSSTATE	2021-Present
*	Software Lead	Xipiter UAS Integrated Products Team	2021-Present
*	Vice President	Phi Theta Kappa-Sigma Tau Chapter, VP Records El Centro College	2018
	S ACCOMPLISHMI		
			2021
Rec	cipient of Certificat	ENT te of Excellence in the course Microprocessor ECE 3424 at Mississippi State University. for Undergraduate Research Program for Deep Learning technique for autonomous	2021 2020
Rec Rec veh	cipient of Certificat cipient of Funding nicles.	te of Excellence in the course Microprocessor ECE 3424 at Mississippi State University.	