SHOVAN SHAKYA
BRINGING IDEAS TO LIFE

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EDUCATION

UNIVERSITY OF SOUTH FLORIDA
B.S Electrical & Electronics Engineering, Minor. Art and Design
2021 — 2025, GPA: 3.55

SKILLS

Solidworks Electric	Git, Flask, OpenCV, ROS	Programming Languages:
Siemens PLC, Labview	Android Studio, Firebase	Kotlin, Python, Javascript, C,
Unity, Blender	FL Studio, ProTools,	C++, C#, Verilog, VHDL
Adobe Creative Suite	Dolby Atmos	

EXPERIENCE

Professional

Universal Creative Orlando, Research & Development Engineering Intern
September 2022 — December 2022
— Developed Unity, C#, Siemens PLC applications for automation, testing and debugging.
— Developed website for file handling using Flask. Initiated and developed BCI and
  Spatial Audio applications with Emotiv, Matplotlib, Unity, Dolby Atmos and WWise.
— Deployed a project involving a moving prop using stepper motors and Arduino.

Rehabilitation Robotics and Power Systems Lab, Research Assistant
May 2022 — Present
— Verified and tested project involving calculating impedance using Oscilloscope, TI
  C2000, RPI4 Microcontrollers and Matlab.
— Integrating and exploring RPi3, cameras and power for Computer Vision project.
— Configured TCP communication between Host, and cRIOs using LabView. Integrated
VHDL on cRIO FPGA.

USF World, Digital Media Support Specialist
March 2022 — Present
— Using the Adobe Creative Suite to design content videos, fliers, prints.
— Initiated exploring and using Blender for novel 3D based content and design assets.

Projects

BMES Robotics, Hardware & Programming Lead
January 2022 — April 2022
— Assembled a robot that follows a dark tape using IR sensors, object avoidance
  using Ultrasonic senors.
— Modelled and 3D printed chassis and cover based on race cars.
— Programmed robot for autonomous victory in Vex Robotics State Championship.

USF FSAE + NASA Student Launch, Electrical Team Member
October 2021 — Present
— Developed Schematic design for engine harness along with testing gauges.
— Developed a 6 capacity battery box for storing and charging during competiton.
— Used Arduino and ROS in Nvidia Jetson to connect with LoRA module for data
  transmission for NSL Rocket and ground station.
— Soldering, wiring, welding batteries & components for IEEE Electrathon electric car.

KHEL APP, Founder/Android Developer
March 2020 — June 2021
— Learnt app development & developed start up app idea using Kotlin, Firebase.
— Coordinated with team of an artist and marketing. Link:https://bit.ly/39m5Abc

AWARDS

USF Hackathon Hackabulls 2022 — Solo Winner Funniest Hack (Javascript, Snap AR)
VEXU Robotics Florida State Championship 2022 — Winning Team
USF GAME DEV CLUB GAMEJAM 2021 — Second Placed Team (Unity, Blender)
Tampa Bay Electrathon 2021 — 2nd Placed Team