

SUNIL GHOSAL

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EDUCATION

University of Florida, Gainesville, FL
Bachelor of Science in Mechanical Engineering
Herbert Wertheim College of Engineering

Expected Graduation: May 2021

Overall GPA: 3.40

WORK EXPERIENCE

UF Electric Vertical Takeoff/Landing Research Project, Intern

April 2019 - Present

- Manufactured over 10+ Carbon Fiber parts (i.e Wings, Airfoils, Spar, Fuselage , etc.)
- Created Jigs to test certain aspects of aircraft (i.e Thrust per Motor, Lift to Drag, Weight, etc.)
- CAD modeled parts for aircraft internals (i.e. Battery Trays)
- Soldered electrical connections and wired aircraft (i.e Motors, Batteries, Cameras, etc.)

PERSONAL PROJECTS

Motorcycle Rebuild/Restoration, Ninja 250

March 2019 - August 2019

- Removed, cleaned, rebuilt, and synchronized carburetors to smooth 1100 rpm idle
- Created a homemade instrument to measure the vacuum of each cylinder
- Rebuilt internals of the starter motor and petcock fuel valve
- Replaced wiring harness for ignition coils and switches using online wire diagram/Hayne's Manual

Car Audio/Backup Camera Install, Scion TC

May 2018 - August 2018

- Calculated voltage drop of 870 RMS Watt load on 100 amp alternator
- Designed circuit geometry for minimal electromagnetic inductance noise
- Soldered new radio's wiring harness into factory's wiring harness using online wire diagram
- Spliced backup camera power into transmission reverse wire and connected signal cables Manual

INVOLVEMENT

Gator Growl and Homecoming, Assistant Director Operations

August 2017 - December 2017

- Trained team of fellow students volunteers to reach out to companies for quotes
- Planned, promoted, and executed Gator Growl Concert and Homecoming Parade

Gators March for Babies, Spirit Stations Director

July 2017 - December 2017

- Setup tent locations for the 4th annual Alachua County March of Dimes 5k
- Raised over \$500 for research into premature childbirth

Rick Scott for Governor Campaign, Outreach Coordinator

October 2014 - November 2014

- Recruited new volunteers for the field managing Precincts 406-435
- Supervised team of interns and directed the "Get Out the Vote" initiatives to increase voter turnout

TECHNICAL STRENGTHS

Modeling and Analysis
Software & Tools

Solidworks, Matlab, Excel
HTML, CSS, Latex, VB.net