

# Trey Core

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*Home Address:*  
10490 Classique Ave.  
Baton Rouge, LA 70815

*School Address:*  
911 Nelson Ave.  
Ruston, LA 71272

## **EDUCATION & AWARDS**

- Studying for a B.S. In Electrical Engineering | Expected Graduation May 2019  
Louisiana Tech University | Ruston, Louisiana
- Amateur Radio Relay League Foundation Scholarship Recipient
- College of Engineering and Science Scholarship

## **EMPLOYMENT**

- **Instrumentation Intern | Audubon Engineering | June - August 2017**
  - Collected and organized data using MS Excel for about 1700 instruments as part of a hazardous area evaluation of an anhydrous ammonia production plant
  - 40 hours a week,
- **Cable Installer | Saia Communications | May - August 2015**
  - Installed networking cable, installed cable hooks, and terminated cables on a construction site
  - 40 hours a week
- **Audio/Video Installer | Custom Audio Video/Saia Electric | May - August 2013-14**
  - Installed TVs, speakers, terminated cables, ran wires, installed security systems, and security cameras
  - 40 hours a week

## **PROJECTS, SKILLS, and ABILITIES**

- Built a lithium ion powered scooter with PWM speed control
- Integrated Circuit Design (ELEN Elective) , designed an OpAmp
- Familiar with Circuit Schematics
- Soldering | Radio Communication | Designed and Fabricated a Printed Circuit Board
- Built a Quadcopter | Built a Visual Doorbell for the Hearing Impaired | Restored a motorcycle

## **HARDWARE & SOFTWARE EXPERIENCE**

- Atmel Atmega328 with Arduino and C
- Atmel AVR with Atmel Studio and C
- Basys 3 Atrix-7 FPGA with Vivado and Verilog
- AutoCAD, SolidWorks, SPICE, MATLAB, LaTeX
- 3D Printers

## **LEADERSHIP and INVOLVEMENT**

- President of the Louisiana Tech Amateur Radio Club
- Leadership Team Member of the Association of Catholic Tech Students, led Spring Retreat
- Member of the Louisiana Tech Aerospace Club