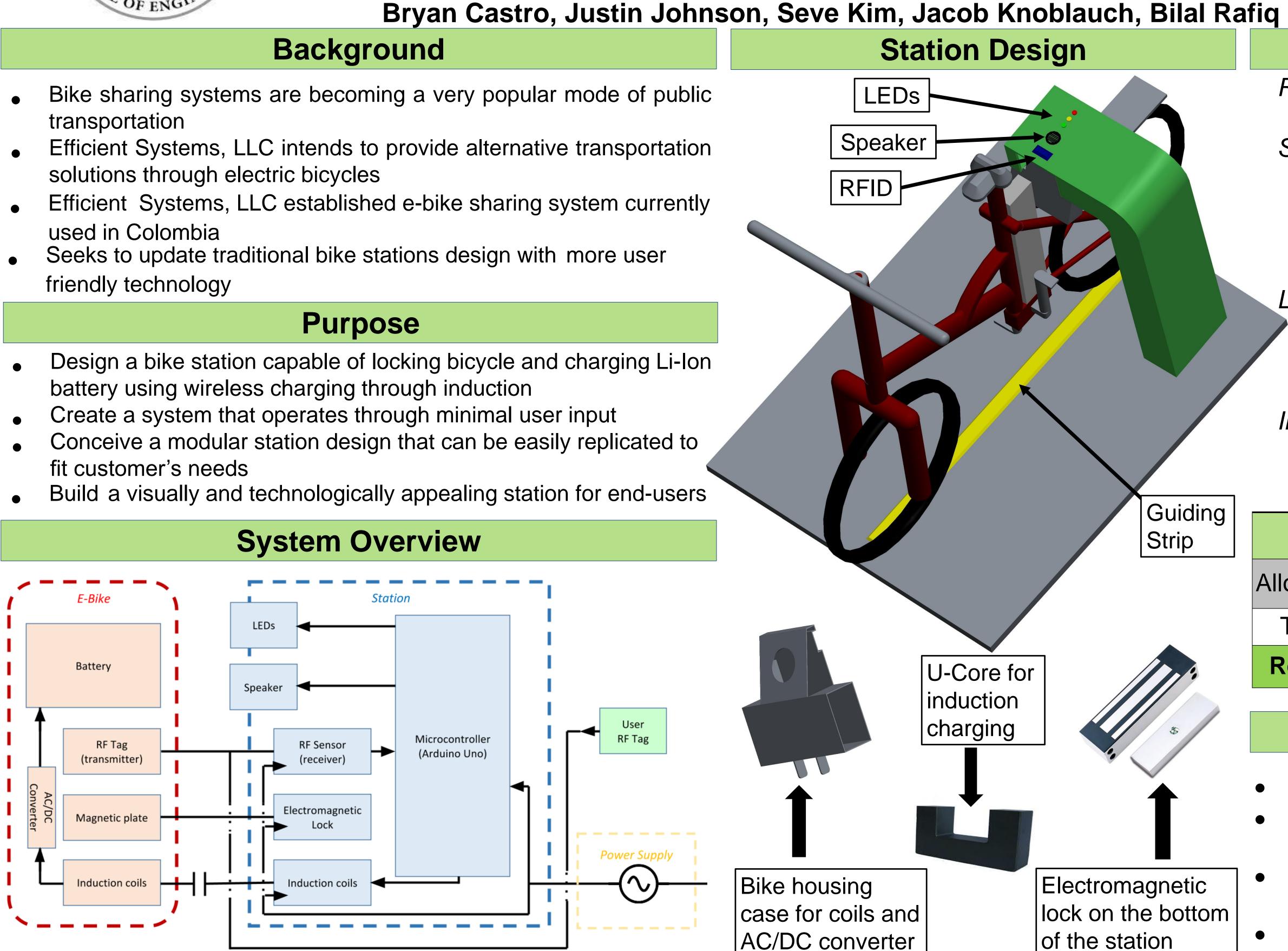


Electric Bike (E-Bike) Charging and Docking Station Team 7-ECE, 28-ME



- transportation
- solutions through electric bicycles
- used in Colombia
- friendly technology

- battery using wireless charging through induction
- fit customer's needs





Because it makes sense!

Features

RFID Sensor

 Unlock and lock the E-bike Speaker

- Alert user in certain situations
- Constant beeping = There is an issue
- 3-tone high beeps = Bike locked
- 3-tone low beeps = Bike unlocked

LED Indicators

- Red = Bike locked
- Yellow = Bike out of service/charging
- Green = Fully charged/available

Induction Coils

• On the station and on the bike using U-core

| Project Budget | |
|----------------------|---------|
| ocated Project Costs | \$1,000 |
| Total Project Costs | \$615 |
| emaining Balance | \$385 |

Future Work

- Unique code for each bike for tracking Data structure to communicate with
- website for remote access
- Further research and development on high power transfer for induction charging Improve charging time of battery