Electric Scooter Solar Charger Project

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Bird & Lime Electric Scooters

- How they work
  - $1 to start, $0.15/min to ride
  - ~15 mph max speed
- Drivers License, helmet, 18+ required to ride
- Ride & park anywhere
- Help traffic and pollution

Project Goals

- Create solar charging stations for Bird and/or Lime Electric Scooters
- Work with LA & Bird/Lime to install charging stations
- Help Bird & Lime by creating a place for scooters to be parked
    - Eliminate the number of scooters thrown around
    - Work with cities fighting against scooter companies

Our Contribution

- Work with Bird developers
  - Wireless connection between charging station, scooter app, scooter
- Possibly an app
  - Track charge amount for each charging station
  - Regulating amount of charge in different weather conditions (sunny vs. cloudy)
  - Track whether scooters are plugged in or not

Challenges

- Working with Bird/Lime & collaborating with Los Angeles
  - Wireless communication?
  - What language(s)?
- Scooter Charger Job exists
- Charging stations vs. ability to park everywhere
- Cross-functional and cross-team collaboration

Sources

- https://detroit.curbed.com/2018/8/28/17792028/lime-scooter-share-market-detroit
- http://www.latimes.com/local/lanow/la-me-ln-bird-scooter-vandalism-20180809-story.html
- https://www.li.me/electric-scooter
- https://www.bird.co/