

ClamParking

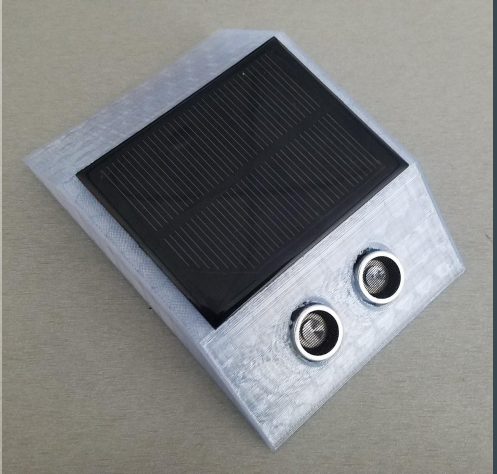
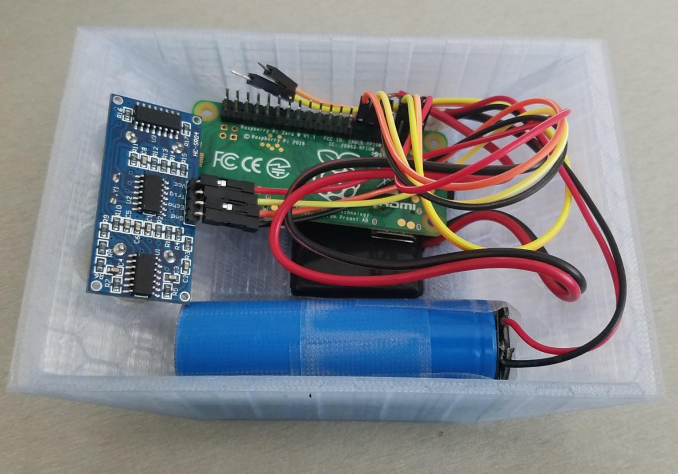
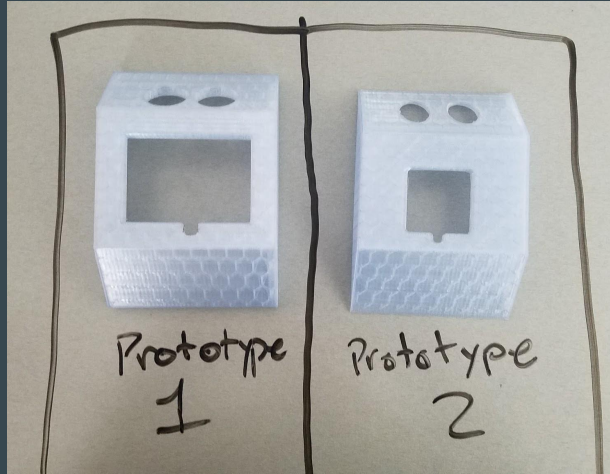


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Philip “Clay” Evans, Ryan Blakeman

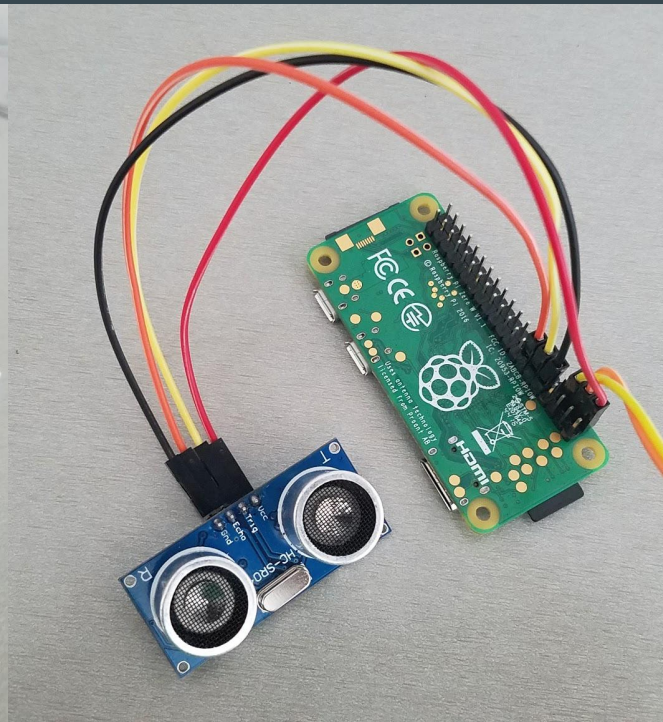
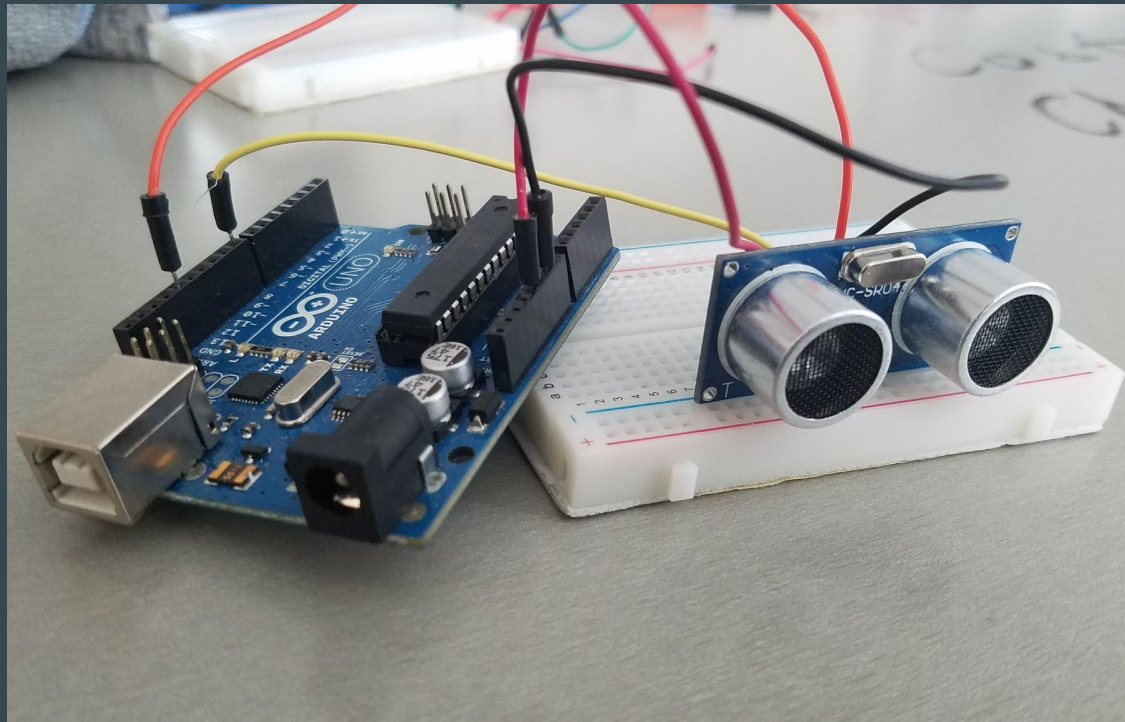
Objective

- IoT device
- Connect to school wifi
- Broadcast parking spot availability
- Web application that informs students on spot availability

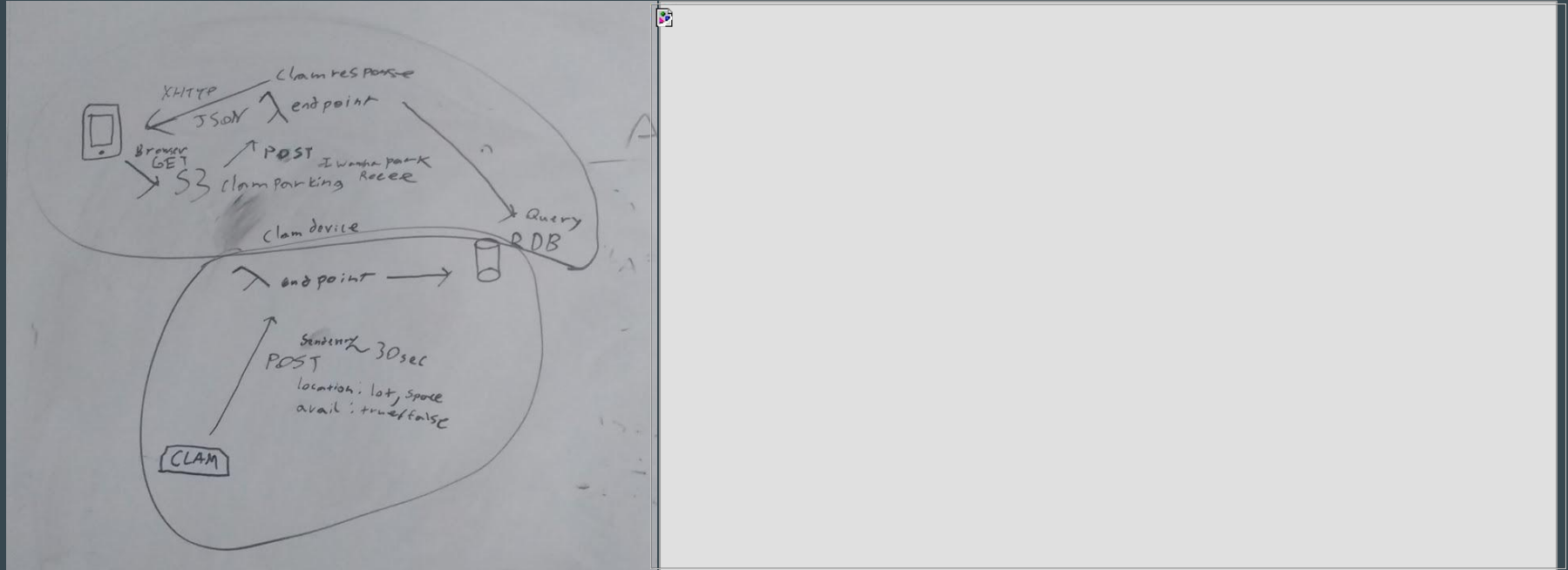
Physical Design



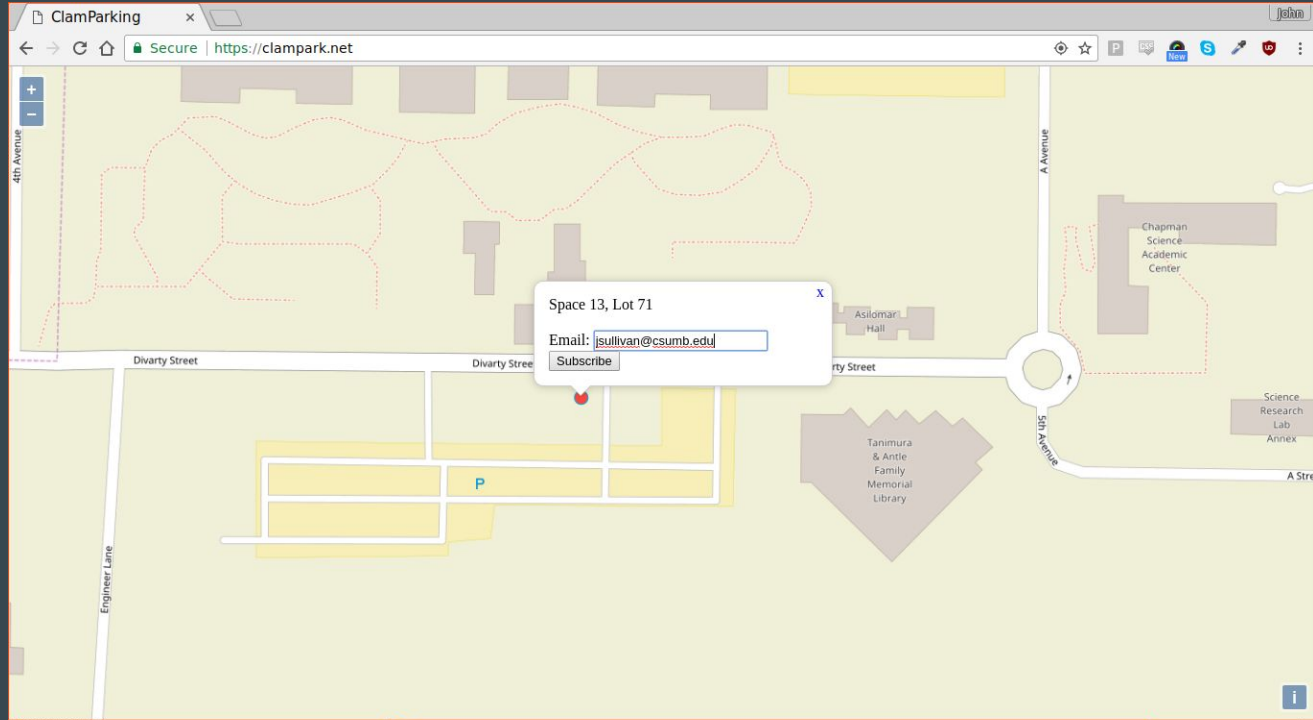
Physical Design



System Design



System Design



Costs

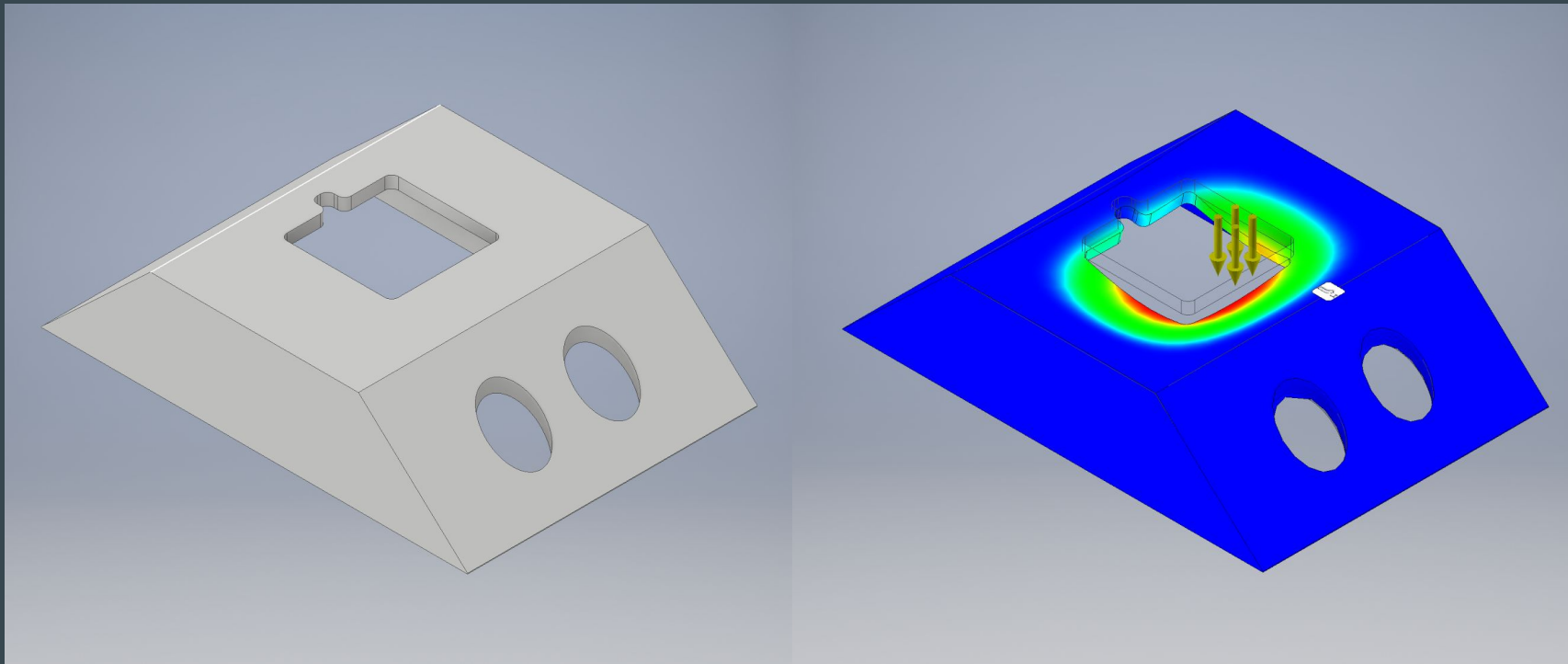
- ~\$25/unit for device
- ~\$12 per 1,500 users to run software by month*
- Any maintenance on the hardware

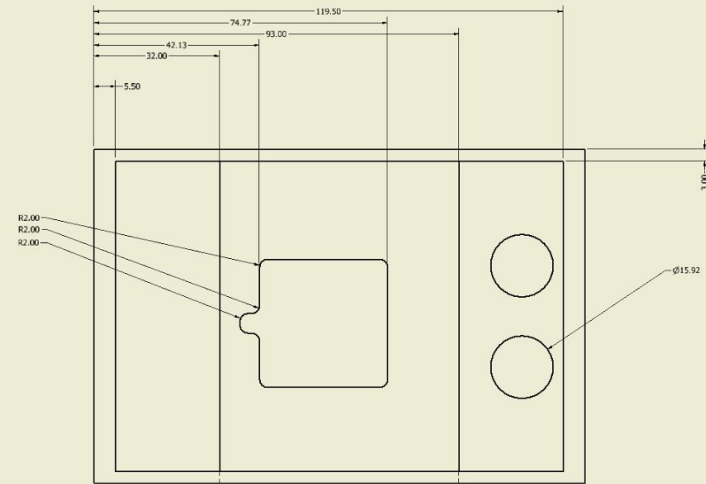
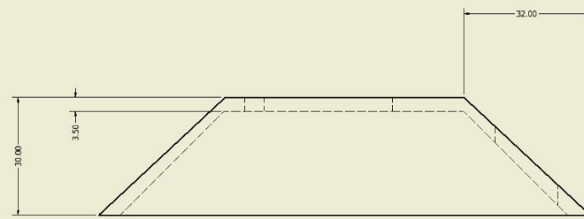
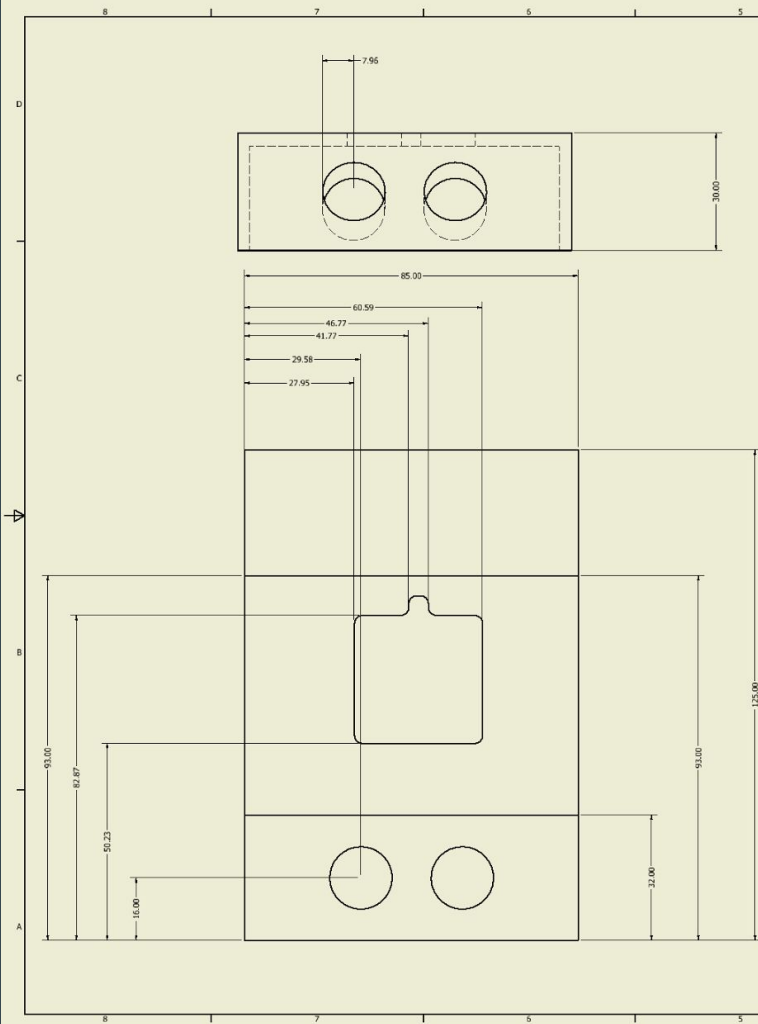
*on AWS, can be run on other infrastructure

Challenges

- Securing hardware
- Considering usage
- Durability
- Power
- Building software at scale
- Availability

Challenges





Future Work

- Improve frontend
- Make deployable anywhere
- Better case
- Statistical analysis

Questions

