Meeting Minutes

Wedn Sep 21, 2022

**Dr. Shahin Sirouspour**

* Introduce ourselves
* Talk about the project (anyone want to explain it?)
* Maybe talk about our skills like what we’ve learned in class and in our jobs
  + App building skills - Anthony
  + Mechanical skills – Stephen
  + 4th year mechatronics – basic electrical skills
  + Decent experience programmed hardware
* Tell him what we’d like his role to be (to help us when we need help?)
  + Still at the beginning stages of project – general support in mechanical, electrical and software components
  + Semi-regular meetings with questions – biweekly – 1-month meetings
* Add him to github – add him
* What are your skills?
* Have you done capstone? tips/tricks/advice? – send him our requirements

His Skills:

* Mechatronics

What we Need:

* Software
* Hardware Integration

Bike Lock

* Automated – power source, motorized, battery (rechargeable or recharge using bike itself)
* Unautomated – advantage is no keys
* Both manual and automated system – in case phone dies
  + order to unlock
  + force/torque to unlock
* GPS function 🡪 to locate bike – subscription to tracking service – wireless connectivity (GPS needs to connect to network to report back information) AWS
* Bluetooth – you have to be in range
  + why would you want to locate the bike if it’s within range?
* Mechanical Design
* Embedding electronics -> protect electronics b/c bike is outside

Advice

* Start early – important decisions late and face challenges
* Start learning skills that we need early