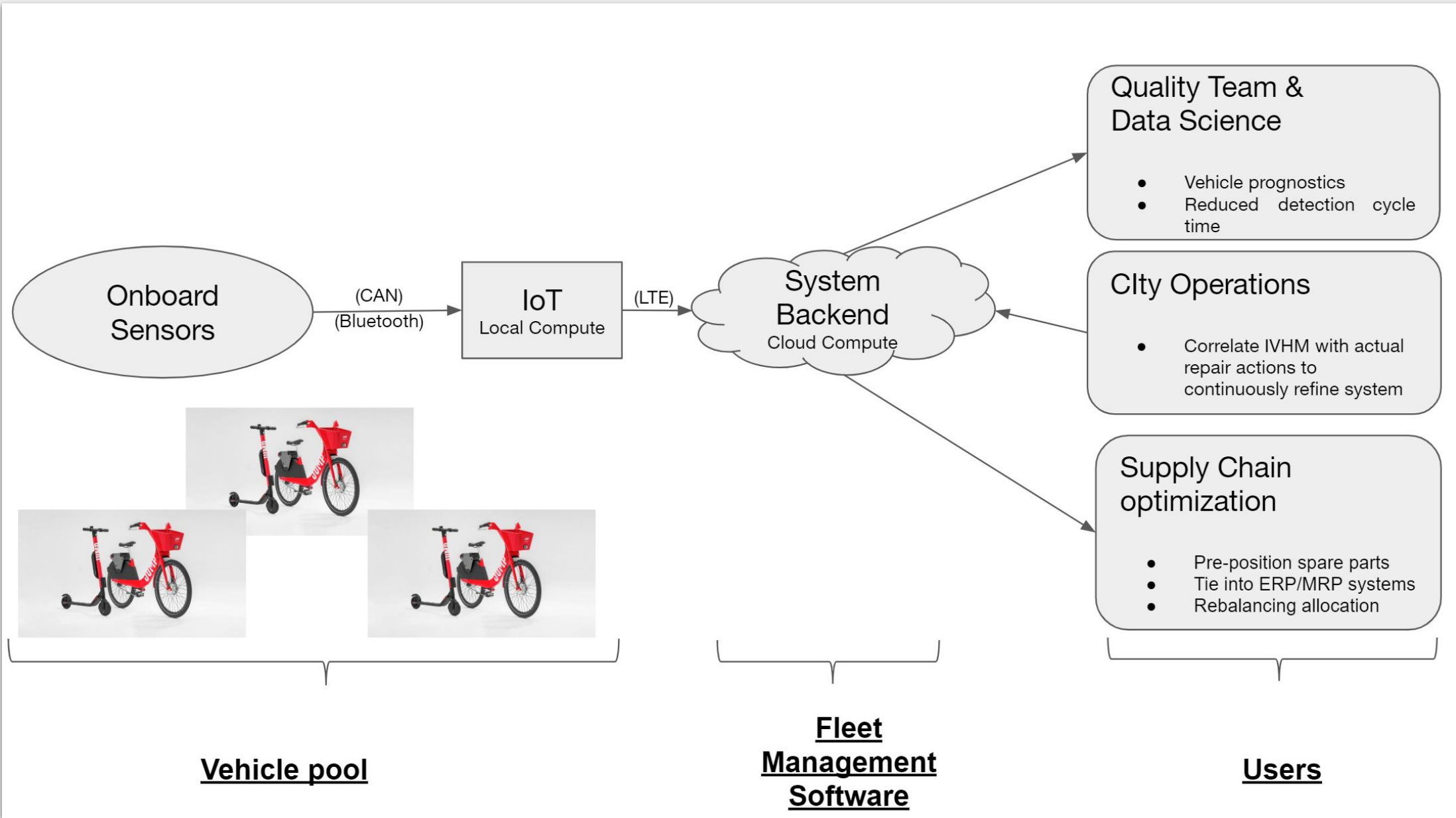


P1: Integrated Vehicle Health Management in shared LEVs



Tech tools: C++, Python, Embedded Shell, BlueZ stack

Worked with: Sreekanth Boga, Mattis Fjallstrom, Dan Sussna, Joe Fetter

Needs:

- ❑ Redundancy in city operations.
- ❑ Optimise the maintenance process
- ❑ Lack of full knowledge of deployed product

Work done:

- ★ Wrote software for integrating Clarion IoT with Tire Pressure Monitoring System (TPMS)
- ★ Testing underway on Reliability bikes

Next steps:

- Create a centralized platform and integrate with Hive tables
- Roll out in SF for testing
- Add more sensors

P3: GPS Accuracy Measurement

Needs:

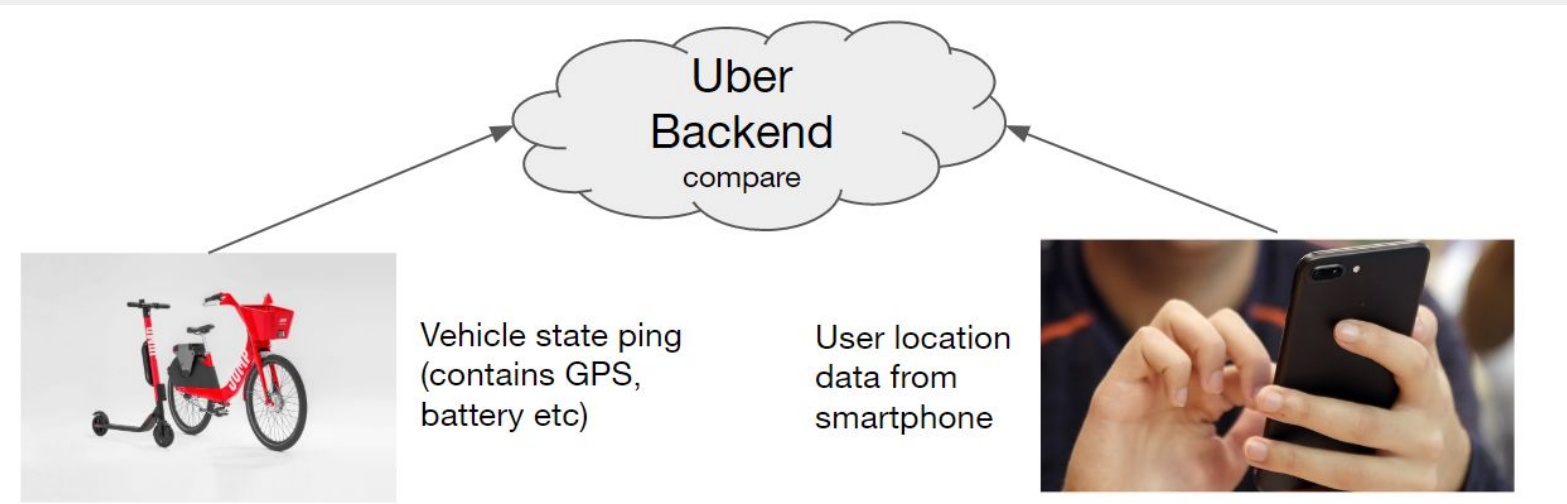
- ❑ Performance data of current IoT.
- ❑ Creating supplier specifications for next gen components

Results:

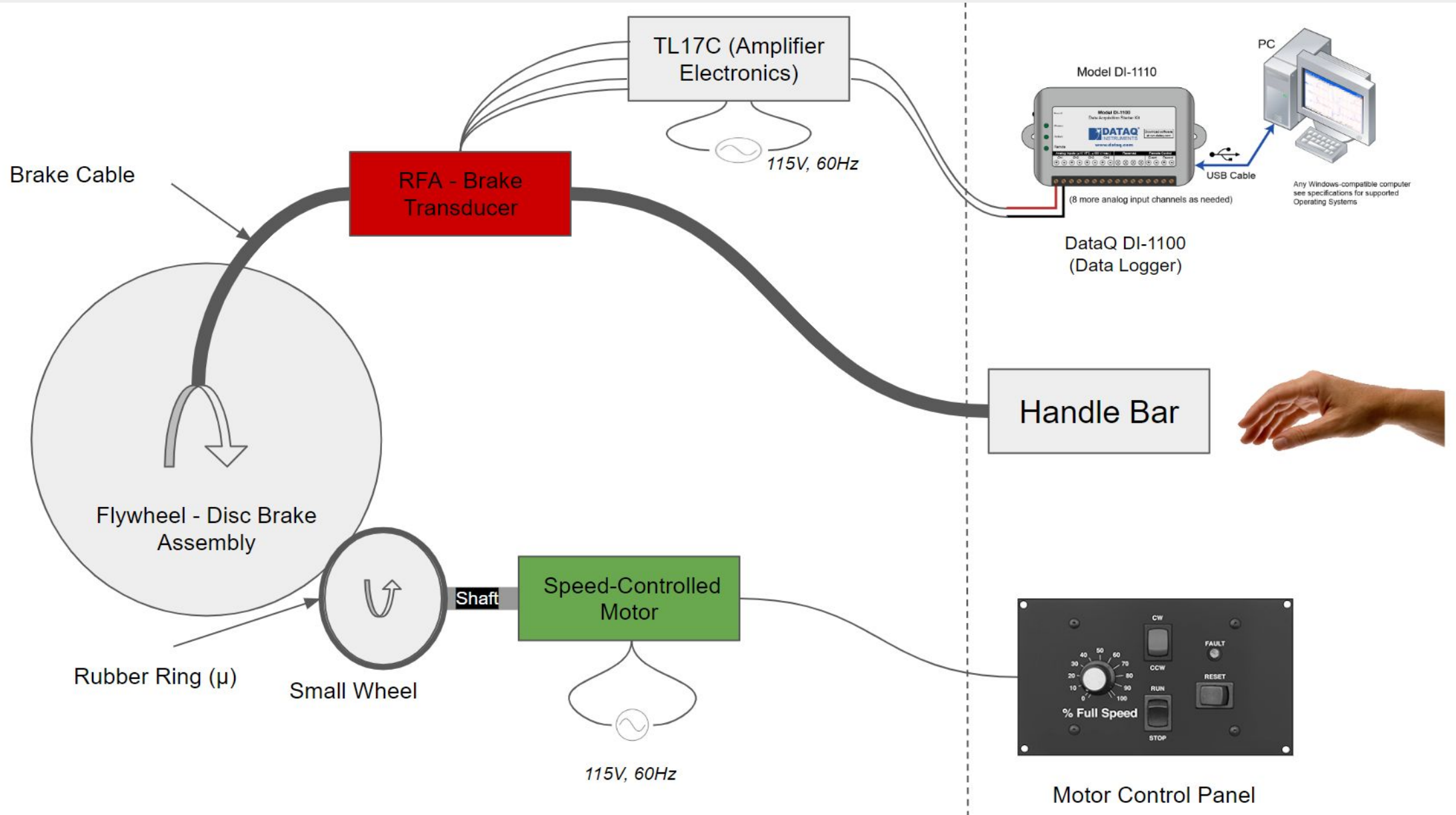
- ★ Summary spreadsheet for all markets with GPS accuracy details for both bikes (~ 30 meters) and scooters(~60 meters).

Tech tools: SQL Querybuilder

Worked with: Noah Sylvan, Alex Tedeschi (NYC team)



P2: Brake Cable Tension Test



Needs:

- ❑ Optimise maintenance process.
- ❑ Metrics for manufacturing assembly line

Work done:

- ★ Worked on the project conception and math.
- ★ Setup electronics and data logging units
- ★ Created DOE

Nest steps:

- Perform experiments and provide metrics for Ops team and product supply teams

Tech tools: JMP, DataQ logging, Tension sensor electronics

Worked with: Robert Biafore (CAD and Manufacturing)

P4: Alternate Supply Chain Models:
To Improve Unit Economics

Needs:

- ❑ Unlock efficiency to reduce costs

Developments:

- ★ Created a custom dashboard for stats
- ★ Looked into possible improvements in current maint & city operations

Nest steps:

- Validate model by gathering inputs from stakeholders and roll a pilot project

Tech tools: SQL Querybuilder, Dashbuilder

Worked with: Ashish, Thomas Kreek