Shuttle Tracker

watchOS Application

Fully native watchOS App

- Schedules
- Announcements
- Bus Location and Map
- Customizable Settings (dark mode, server URL)
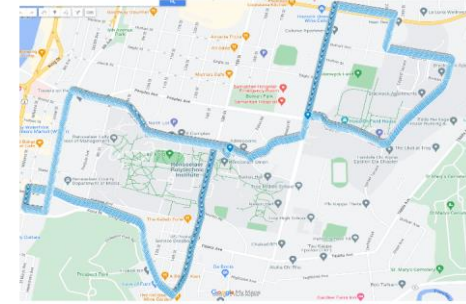

ABOUT US

Shuttle Tracker is an app designed to track RPI's North and West shuttles, and we have been doing so since 2022 with our app.

We currently rely on user location. Each time you press board bus, you help provide invaluable tracking data for everyone.
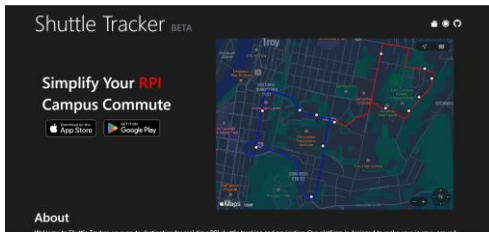
Machine Learning

A way to show the user's bus locations even when no one is riding.

Simplifying locations to one of thousands of discrete points to make training easier.

A New Look for 2024

CURRENT SETBACKS

While we can get the app working, location data still needs improvement. Not enough users are using board bus, causing the app to show information sporadically.
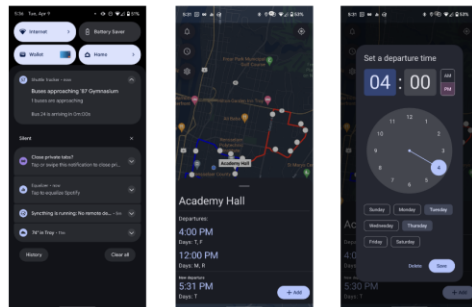
For the FUTURE

The Future depends on the next generation of RCOS. We have much planned for new ways of tracking the shuttle and overcoming the lack of GPS data.

A Smarter Way to Travel!

Have a Class ending at 4? Want to get real time updates when your class ends about buses? Not a problem! Alexander worked on a feature for this!

Setting Specific Times allows you to be notified of the three closest buses. A smarter way to organize notifications. Brought to you by the software team

Departures

Time Matters!

- **Gathered information from old data**
  - Using the old data gathered over the years from the database, found the average speed limits per sections
- **Implemented a distance tracker of a shuttle**
  - Tracks the distance traveled between two locations (previous location and current location)
- **Estimated Time Arrival**
  - Created and implemented an algorithm that determines when a bus will arrive given the current destination and the destination coordinate

Estimated Time Arrival

ETA — ESTIMATED TIME OF ARRIVAL