

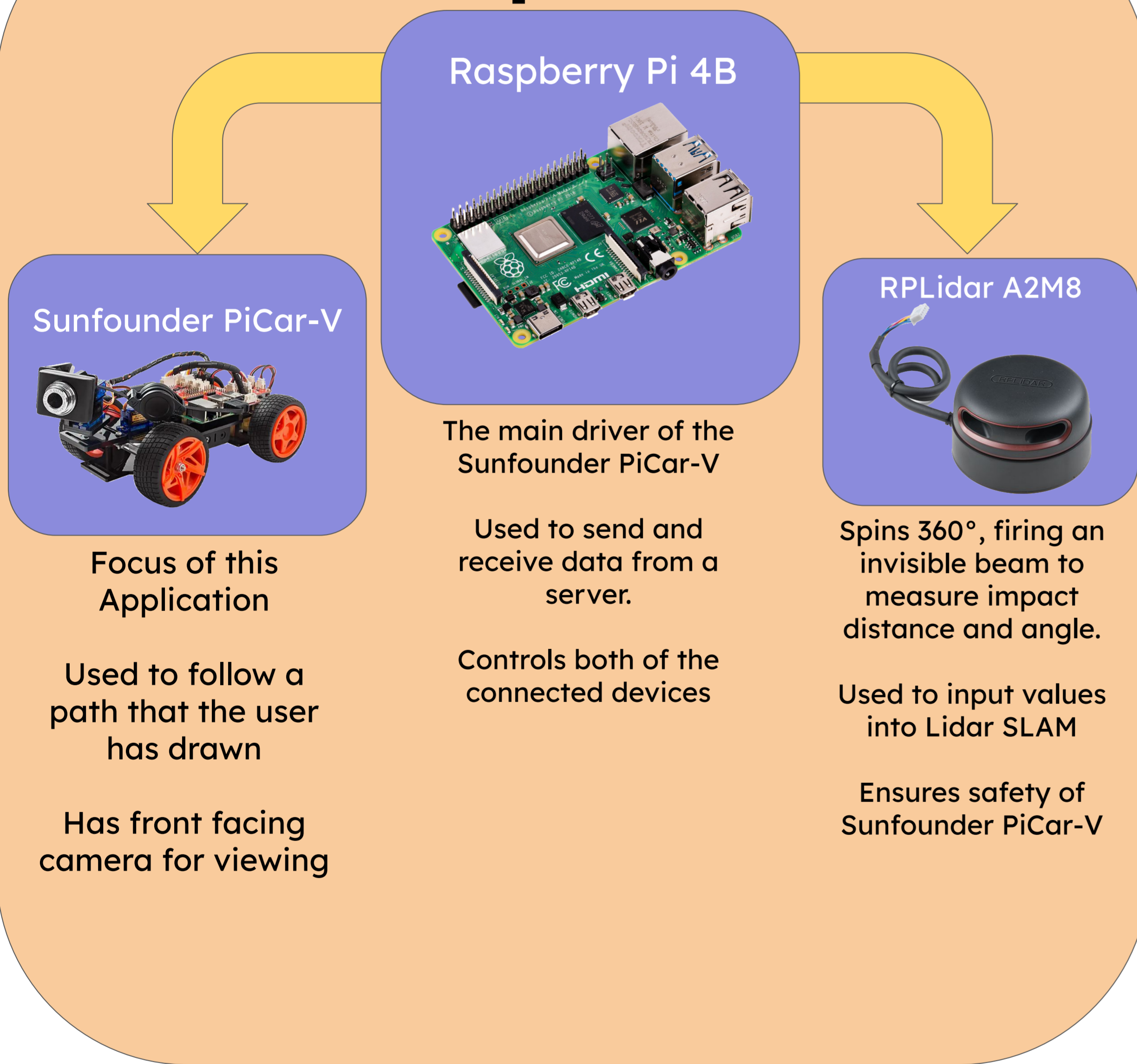
Route Navigator

Car Application

Full Stack application to control a Car with Wall Detection!

- For this application, the car can be rented by users with credits so they can draw a path on where the car will follow in a birds-eye-view.
- The front-facing camera can also be used to see what's ahead.

Components:



Lidar SLAM

(Light Detection and Ranging; Simultaneous Localization and Mapping)

Algorithm used to detect walls and estimate the position and orientation of the device [1]

Tools and Technologies:

Frontend



Typescript

Primary Frontend Language

Compiles into Javascript and has static typing



Svelte

Frontend Component Framework

Compiles into HTML, Javascript and CSS

Backend



C++

Primary Backend Language

Used to create high-performance applications



Xmake

Build System

Package Manager



Drogon

C++ HTTP Application



MariaDB

Database

Fork of MySQL

References:

1. <https://www.wevolver.com/article/lidar-slam-the-ultimate-guide-to-simultaneous-localization-and-mapping>