



492 Project Roadmap



SDDEC21-02: Matt Dwyer, Braedon Giblin, Cody Tomkins, Spencer Davis, Prince Tshombe



I2C IMU Sensor Functional Demo

- a. Proto-typed implementation
- b. Graphical representation of IMU data

So far, we have modified a driver to work with straight memory access, instead of an I2C master. Ongoing efforts include expanding

Deadlines for I2C Sensor Functional Demo

- 10/05: Have Toy System C model ready to demo for our client
 - Model would include omitting iic master and simply using direct memories
 - Requires driver modifications
- 10/17: Implement iic master device that allows native OOB driver to function on SystemC
 - Generate test data that can be fed via SystemC to prove functionality of our model

Remote Port Implementation

The Remote Port implementation will allow for two way traffic between a host computer and the co-simulation environment. This will make using the co-simulation application easier to use and access.

Deadlines for Remote Port Implementation

9/28: Have a basic, barebones demo working for our meeting with our client. This will include a basic program utilizing the libremoteport library that we can build on for our application.

10/11-10/18: Build on previous demo and add documentation for newer users. Ideally, this can be published to the open source repository soon after demoing to our client.

Later down the line: Build another layer on top of the previous demo with a higher level language. This will increase usability for the typical programmer.

Supporting Documentation

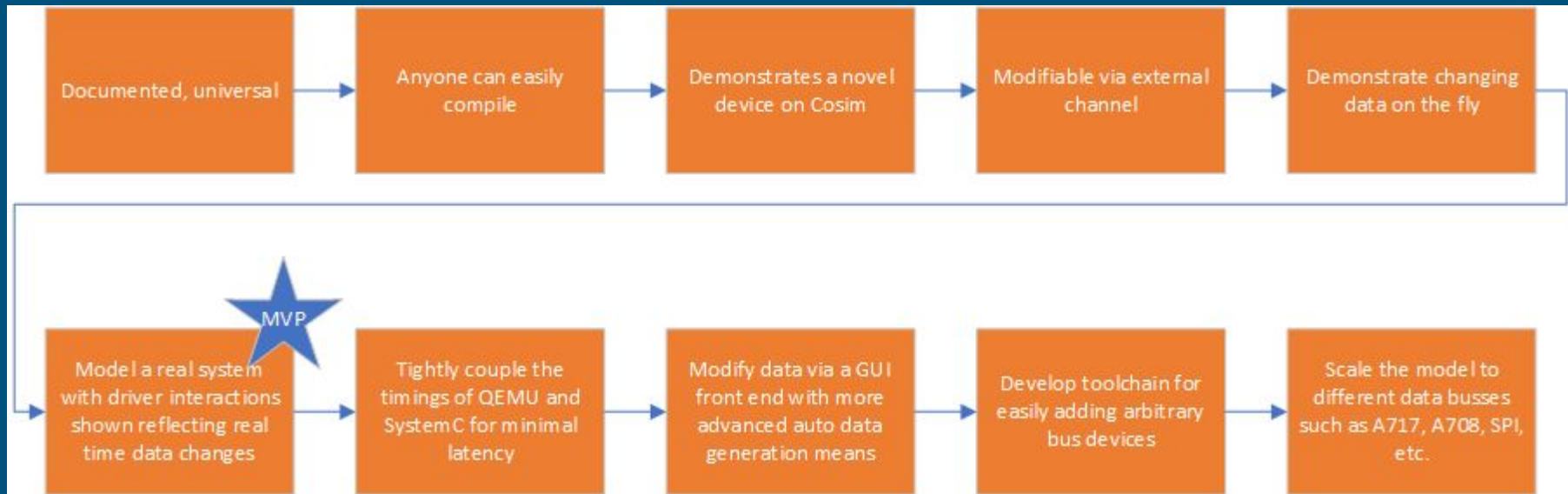
Authoring additional and more in-depth documentation will assist new users in getting acquainted with the technologies.

- Dockerfile, remote-port, examples

Further project documentation:

- Website, in-depth presentations, publish implementation source

MVP for Demo



MVP for Demo

- We would like to reach as many benchmarks as possible
- We believe that at our current pace, we can meet the MVP including having an actual product