

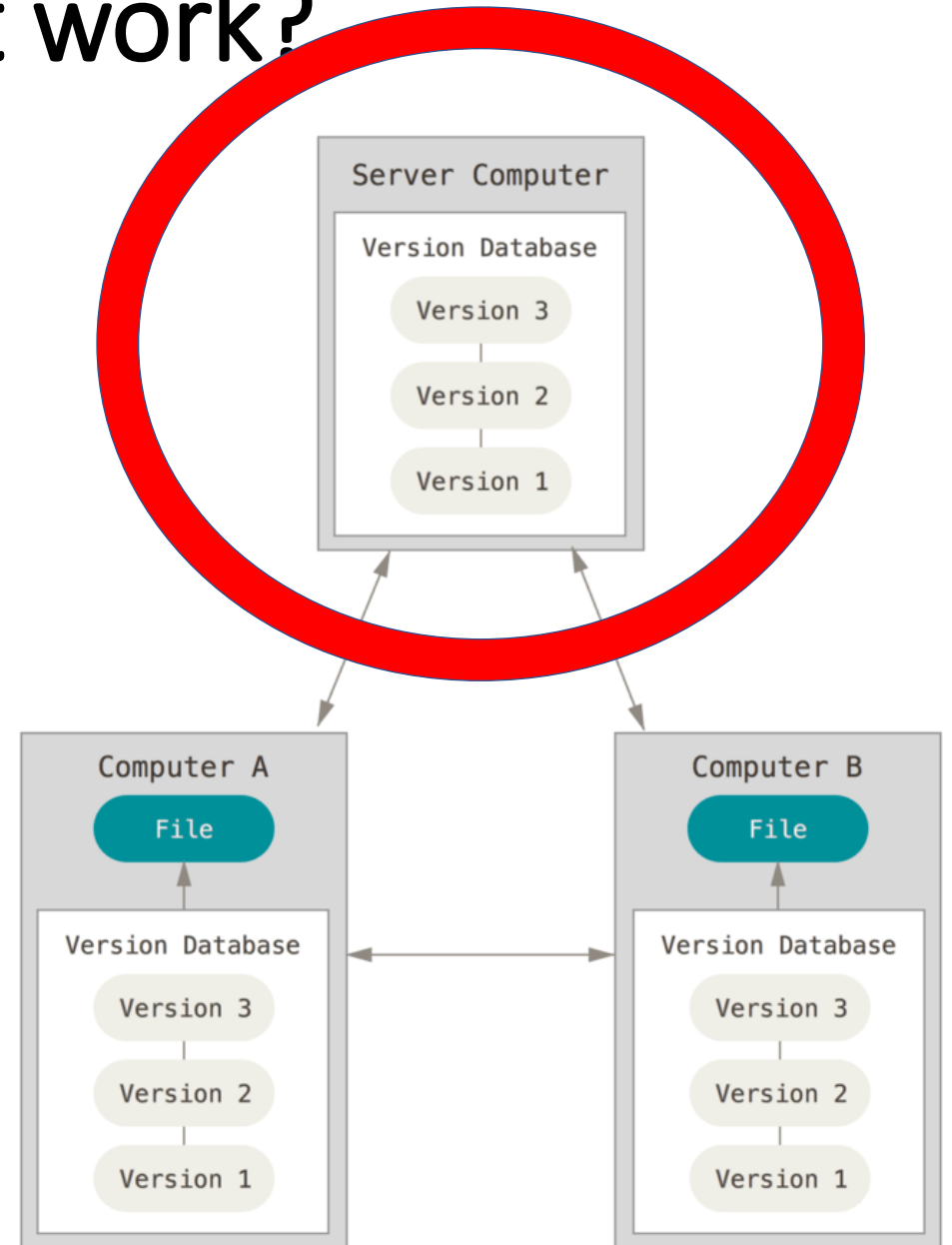


# What is it?

- Centralized git server
- User accounts
  - Authorizations
  - Repos granted access
- Web git interface
- Pull Requests / merge Requests
- Issue tracking
- Project Kanban board
- Wiki
- Releases
- Notifications
- CI/CD
- Others – Gitlab, Atlassian Stash / Bitbucket / JIRA / Confluence

# Git – how does it work?

- Clone local copy of the repo (.git)
- Central server not required
- Not delta based
- Every change is an entire new copy



# Centralized git repos

- Backed up
- Secure = TFA, SSH, OAuth, Personal access tokens
- Public vs. private
- Organizations

# Web git interface

[Code](#) [Issues 3](#) [Pull requests 0](#) [Actions](#) [Projects 1](#) [Wiki](#) [Security 0](#) [Insights](#) [Settings](#)

No description, website, or topics provided. [Edit](#)

[Manage topics](#)

[2 commits](#) [1 branch](#) [0 packages](#) [0 releases](#) [1 contributor](#)

Branch: [master](#) [New pull request](#) [Create new file](#) [Upload files](#) [Find file](#) [Clone or download](#)

<a href="#">duanestrong</a> Added pdf	Latest commit 668a79c on Oct 27, 2017
<a href="#">docs</a>	Added pdf 3 years ago
<a href="#">README.md</a>	Create README.md 3 years ago

[README.md](#)

## test readme file

---

# Web git interface UPDATE 6/21/20

[Code](#) [Issues 3](#) [Pull requests 0](#) [Actions](#) [Projects 1](#) [Wiki](#) [Security 0](#) [Insights](#) [Settings](#)

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[2 commits](#) [1 branch](#) [0 packages](#) [0 releases](#) [1 contributor](#)

Branch: [master](#) [New pull request](#) [Create new file](#) [Upload files](#) [Find file](#) [Clone or download](#)

[duanestrong](#) Added pdf Latest commit 668a79c on Oct 27, 2017

<a href="#">docs</a>	Added pdf	3 years ago
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[Code](#) [Issues 139](#) [Pull requests 2](#) [Actions](#) [Projects 11](#) [Wiki](#) [Security](#) [Insights](#)

Branch: [master](#) [Go to file](#) [Add file](#) [Clone](#)

[ridefox-adio](#) committed 047e0f5 37 minutes ago [564 commits](#) [35 branches](#) [6 tags](#)

<a href="#">IMU_sensor</a>	Duane/Wang DI pt 1	last month
----------------------------	--------------------	------------

About

No description, website, or topics provided.

[Readme](#)

# Issue Tracking

- What is an Issue?
  - New features
  - Bugs
  - Resources
- What is in an issue?
  - Description / Notes
  - Labels
  - Assignees
  - Notifications
  - Links to projects / milestone

# Issue Tracking

<> Code **Issues 84** Pull requests 1 Actions Projects 10 Wiki Security 0 Insights

## Add BAS client and print out battery level #586

Edit **New Issue**

**Open** duanestrong opened this issue 6 days ago · 3 comments



duanestrong commented 6 days ago



No description provided.



duanestrong created this issue from a note in LIVE Central (To do) 6 days ago



ridefox-epeterson commented 6 days ago



@duanestrong will this also work for E1-keegan?



duanestrong commented 6 days ago

Author

It would be a generic BAS client, but we don't have a BAS server on E1. We just return battery level as one of the parameters in one of the FOX service messages. Way back I put it out there if we wanted to support generic battery service (BAS) but the thinking at that time was nobody cared about it being a generic service and it was less work just to add it to the FOX service.



ridefox-epeterson commented 6 days ago



Fair enough. Fox service is better for what we do with the app



duanestrong self-assigned this 2 minutes ago

Assignees



duanestrong

Labels



None yet

Projects



LIVE Central



To do ▾

Milestone



No milestone

Linked pull requests



Successfully merging a pull request may close this issue.

None yet

Notifications

Customize

Unsubscribe

You're receiving notifications because you were assigned.

2 participants



# Markdown

- Text formatting
  - # headings
  - \* lists
  - 1. numbered lists
  - **bold** *italic*
- Links
  - [text](url)
- People
  - 'at' name
- Readme.md

# Issues

- Attachments
  - Drag & drop
- Cross References
  - #323 -> Issue or PR 323
  - popup text
  - Link - backlinks
- Permanent thread record
  - Not email

# Projects

- Organizes Issues
- Kanban board
- Columns / Labels
- Automation
- Note vs. Issue
- Kanban flows
- An issue can appear in multiple Projects

# Projects

The image displays a Jira project board with five columns representing different stages of the project workflow. Each column contains several task cards, each with a title, ID, assignee, and priority status.

- Backlog - Unassigned (15 items):**
  - Calibration sequence - LED blinking changes over time (#592, opened by ridefox-tpickett)
  - Modify slot hex tool to generate Craft asset file in addition to .tune byte array (#589, opened by ridefox-epeterson)
  - Create tool to check 219 YAML files for accuracy (#590, opened by ridefox-epeterson)
  - Add system uptime to H1 FW (#585, opened by ridefox-epeterson)
  - PC Tool regression testing (#579, opened by ridefox-tpickett, Milestone 15)
  - SPI flash logging: Allow multiple logging sessions
- Backlog - Assigned (10 items):**
  - Decrease handlebar switch pairing time (#308, opened by ridefox-epeterson, 8 H1 High Priority, keegan)
  - Delete Bonds Sequence times out if phone is connected (#544, opened by ridefox-mfraguglia, E1 High Priority, keegan)
  - Create Production Release Branch of Keegan (#492, opened by ridefox-epeterson, 3 E1 H1 Medium Priority, keegan)
  - Regression test for E1-keegan (#511, opened by ridefox-epeterson, Medium Priority, keegan)
  - 'rd' over NUS causes nRF error
- In Progress (4 items):**
  - Issues with "always-open" and "always-closed" PC tool settings (#581, opened by ridefox-mfraguglia)
  - PC Tool Phase 4 (#575, opened by ridefox-tpickett, Milestone 15)
  - Look for this: Switch stopped working but remains in connected state (#541, opened by ridefox-epeterson, 34 URGENT, keegan, Milestone 15)
  - Look for this: Mike's handlebar switch lost connection after bonding phone to controller (#503, opened by ridefox-mfraguglia, URGENT, keegan, monitor, Milestone 15)
- Code Review (2 items):**
  - Create an RSD for Keegan (#368, opened by ridefox-epeterson, 34 Low Priority, keegan)
  - Create crib sheet for Pivot racers and mechanics (#489, opened by ridefox-epeterson, 5 Low Priority, keegan)
- QA (5 items):**
  - Change pushbutton method to simultane press (#565, opened by ridefox-epeterson, Medium Priority, keegan, Milestone 15)
  - Problems with push code (#559, opened by duane, Medium Priority, keegan, Milestone 15)
  - Discharge test w/ cc system and logger (#553, opened by ridefox-epeterson, H1 High Priority, keegan, Milestone 15)
  - Get Switch position pushbutton-switch-

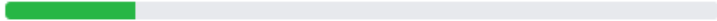




# Project Column Automation

Preset	Options
To Do	<ul style="list-style-type: none"><li>Move all newly added issues here</li><li>Move all newly added pull requests here</li><li>Move all reopened issues here</li><li>Move all reopened pull requests here</li></ul>
In Progress	<ul style="list-style-type: none"><li>Move all newly opened pull requests here</li><li>Move all reopened issues here</li><li>Move all reopened pull requests here</li><li>Move all pull requests that meet the base branch's minimum number of required reviews here</li><li>Move all pull requests that no longer meet the base branch's minimum number of required reviews here</li></ul>
Done	<ul style="list-style-type: none"><li>Move all closed issues here</li><li>Move all merged pull requests here</li><li>Move all closed, unmerged pull requests here</li></ul>

# Milestones

- Organizes issues
- Seem like Projects but not really
  - Projects are visual
  - Milestones have time boxes
  - An issue can only be in one milestone

# Milestones

🚩 15 Open ✓ 0 Closed		Sort ▾
<b>Milestone 15</b> No due date ⌚ Last updated about 11 hours ago	 18% complete 9 open 2 closed <a href="#">Edit</a> <a href="#">Close</a> <a href="#">Delete</a>	
<b>Milestone 14</b> No due date ⌚ Last updated 2 days ago	 100% complete 0 open 2 closed <a href="#">Edit</a> <a href="#">Close</a> <a href="#">Delete</a>	
<b>Milestone 13</b> ⚠ Past due by 13 days ⌚ Last updated 8 days ago	 100% complete 0 open 4 closed <a href="#">Edit</a> <a href="#">Close</a> <a href="#">Delete</a>	
<b>Milestone 12</b> ⚠ Past due by 20 days ⌚ Last updated 14 days ago	 100% complete 0 open 4 closed <a href="#">Edit</a> <a href="#">Close</a> <a href="#">Delete</a>	
<b>Milestone 11</b>		

# Wiki

- A little history
  - Ward Cunningham wiki wiki web 1995
  - Other wiki sites, Wikipedia, mediawiki, twiki
- It's a repo too, keeps all history
- Markdown
- Sidebar, footer
- Differences between git repo and wiki
  - No branches
  - Navigation



# Wiki

## Live Central Commands

Duane Strong edited this page 13 days ago · 9 revisions

Edit

New Page

Live Central is a firmmware application that runs on a Nordic nRF52 evaluation board or Bluefruit Feather board that acts as a BLE central device for Live BLE peripherals. It accepts a set of two letter commands from the serial port and reports activity back over the serial port to a host computer. The serial port should be set to 115200 baud 8,n,1. Logged messages are tagged with the type of message. For example

```
CON: NUS service discovered
```

Is a connection log message.

- `vr` Print Live Central version number
- `vr,n` Set debug level to n
- `sn,name` Set the name of the device to limit connections to
- `pa,nn,nn,nn,nn,nn,nn` Set the 6 byte peer address to limit connections to
- `cf` Connect to a device that is advertising the Fox service
- `dc` Disconnect from device
- `db` Delete any bonded keys in flash
- `lc,on/off` Log connect messages (default on)

Pages **23**

[Home](#)

[218 01 027 Rev.5 PCBA Rework Instructions](#)

[Coding Source Control](#)

[Coding Standards](#)

[Coding Workflow](#)

[E1 Blink Sequences](#)

[Flashing Parts Using Jlink](#)

[Handlebar Switch \(LIVE H1\) RSD](#)

[Live Central Commands](#)

[Live e1 Datasheets](#)

[Live e1 Debug Connector](#)

[Live e1 Test Commands](#)

[Live e1 BLE GATT Spec](#)

# Wiki

- Since it is a repo
  - You can edit offline
  - You can add attachment files
- Team should never have to hunt for documentation
- Might be better to just put markdown docs with the code it goes with
  - GitHub renders it in the web view
  - Easier to find and edit than being in the wiki
  - Perhaps that should be your readme.md?

# Releases

- Tags
- Automatically archives a source zip and tar
- Attach large binaries

# Releases

Releases

Tags

Latest release

1.1.00

58d77db

Verified





Compare

## 191018 Production Release

ridefox-mfraguglia released this on Oct 18, 2019

- Remove Z-hack from pitch detection algorithm
- Improve Pitch averaging
- Fix I2C Test Command "TF"
- Add ADXL read Test command "TK"

Assets 4

 <a href="#">219-00-003_REVA.hex</a>	119 KB
 <a href="#">v1.1.0.hex</a>	111 KB
 <a href="#">Source code (zip)</a>	
 <a href="#">Source code (tar.gz)</a>	

1.0.03

4d9eceb

Compare

## 190109 Production Release

ridefox-mfraguglia released this on Jan 9, 2019 · [13 commits](#) to master since this release

'TJ' command added to be called by tester to check for R-VBUS digital high.

This addresses failures where some controllers could not detect USB power, thus did not ignore button

# Notifications

- Markdown ats @
- Assigned to
- PRs
- Merges

# Pull Requests (Merge Request)

- A type of issue
  - Notes - Markdown
  - Attachments
  - Notifications
- In browser code reviews
- Reviewers
- Side by side compare / diff
- Annotations
- Approval / rejection

# Pull Requests

```
5 interface-module/README.md
```

```
@@ -0,0 +1,5 @@
```

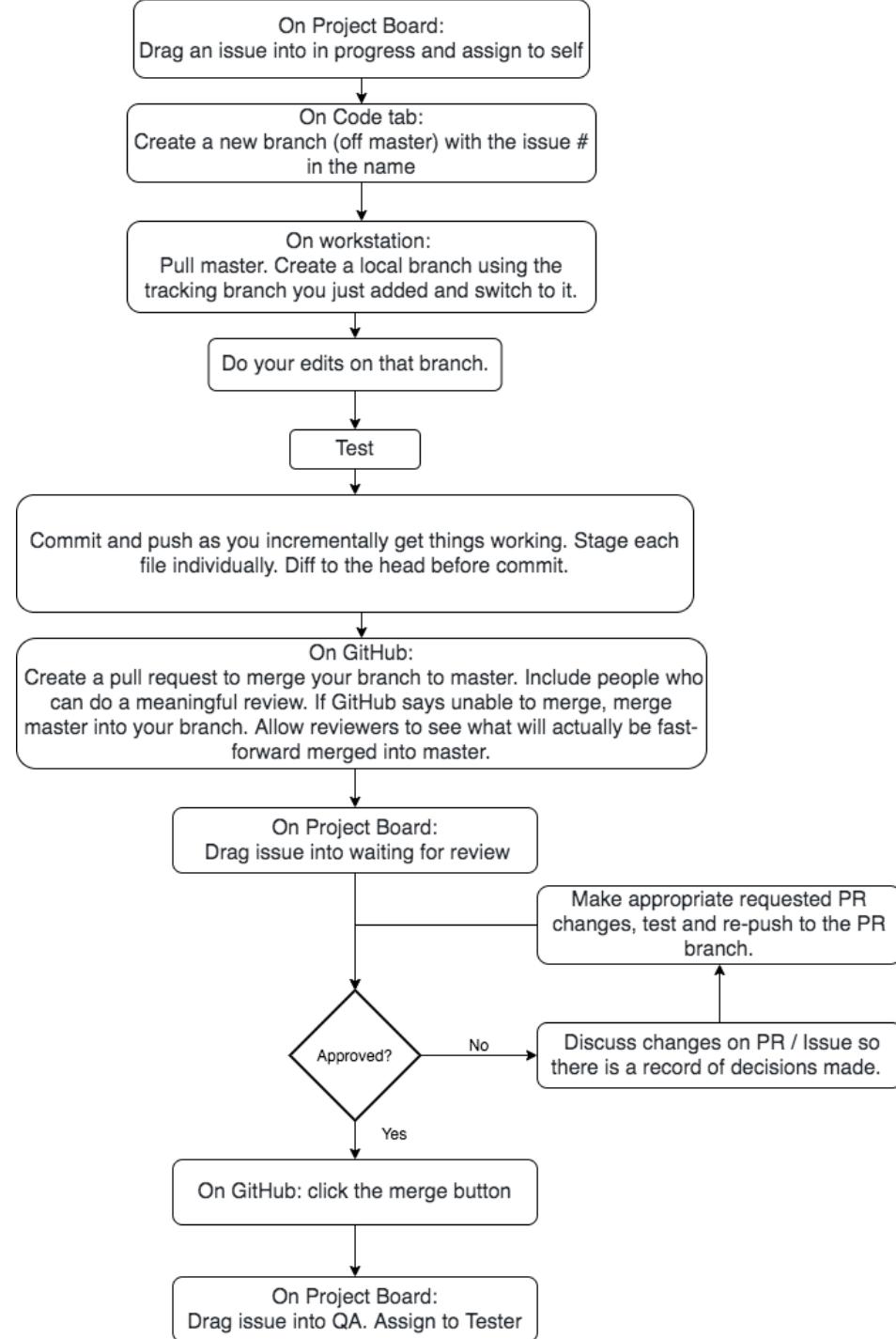
```
1 + # interface-module
2 + This contains firmware for Interface Module BLE/CAN interface board
3 +
4 + In order to build this project the Nordic SDK 12.2.0 must be installed at the same directory level as
   the repository.
5 +
```

```
5 spi_master/spi_master.c
```

```
@@ -17,7 +17,8 @@ static const nrf_drv_spi_t spi = NRF_DRV_SPI_INSTANCE(SPI_INSTANCE); /**< SPI i
```

```
17 static volatile bool spi_xfer_done; /**< Flag used to indicate that SPI instance completed the
   transfer. */
18
19
20 - static void spi_event_handler(nrf_drv_spi_evt_t const * p_event)
21 + static void spi_event_handler(nrf_drv_spi_evt_t const * p_event,
22 +                               void *p_context)
23 {
24     spi_xfer_done = true;
25 }
26
```

```
@@ -38,7 +39,7 @@ uint32_t spi_master_init()
38 spi_config.ss_pin = SPIM0_SS_PIN;
39 spi_config.frequency = NRF_DRV_SPI_FREQ_8M;
40 spi_config.mode = NRF_DRV_SPI_MODE_0;
41 - err_code = nrf_drv_spi_init(&spi, &spi_config, spi_event_handler);
42 + err_code = nrf_drv_spi_init(&spi, &spi_config, spi_event_handler, NULL);
43 if( err_code )
44 {
45     return err_code;
46 }
```





# Forks

- A GitHub thing not a git thing
- Used when the intent is to totally or partially 'disconnect' from the original repo
- Like a clone, but creates a totally new GitHub repo in your account
- Collaboration is still possible via pull requests
- Users don't need write access to your repo to collaborate
- Full development history of the fork is not put into original
- Merge is done on behalf of someone else