Essential Git commands for Hardware Engineers

Use these commands to streamline your hardware development workflow. Learn how to commit changes, manage branches and collaborate with your team more effectively.

Git add
[file / dir]

Stage file to local commit

Git checkout
[branch]

Switch to another branch

Git diff

Show list of files that have changed but are not staged

Git log

Show all commits in the current branch's history

Git push

Push your committed changes to the remote repo

Git show [sha]

Display any Git object in human – readable format

Git branch

List your branches

Git clone [url]

Copy entire remote repointo current directory

Git diff - - staged

Show list of files that have been staged but not committed

Git log - - follow

Display the commits of the file, even across renames

Git push
[alias] [branch]

Push your local branch commits to the remote branch repo

Git status

Show local modified files staged for next commit

Git branch

[new_branch]

Create a new branch at the current commit

Git commit-m
"message"

Commit your changes to local filesystem

Git fetch

Get all branches

Git pull

Get and merge any commits from the tracking remote branch

Git rm
[file]

Delete the local file and stage the removal for commit