



Virtue

SKILL and Python Automation

release [v0.4.1](#) conda-forge [v0.4.1](#) pypi [v0.4.1](#) issues [12 open](#) license [MIT](#)

Virtue is a SKILL and Python Framework for automating IC design in [Cadence Virtuoso](#) with the following goals:

1. Bring the capabilities of skill to Python so (ideally) you don't have to write skill code to do EDA in Python
2. In those cases where you do need to write skill, make it pythonic

Projects built with Virtue

- [Softworks](#): Software and documentation view types in the Cadence Virtuoso IC design environment.
- [Data-panels](#): Export rich data reports from simulation results to pptx slides and xlsx tables
- [Morpheus](#): Generate Maestro test benches in a standard way compatible with an associated data-panels report

📺 YouTube Video Explanation

I explain Virtue as a part of the Silicon Austria Labs (SAL) bootcamp: [YouTube Video Explanation](#)

Features

- A SKILL code packaging system
 - Simple SKILL package installation from the Python environment
 - Define [SKILL++ Modules](#)
 - Create [SKILL++ Packages](#)
 - Import modules into a SKILL++ environment using the top-level "Import" table
- A [SKILL Test Framework](#) modeled after [pytest](#)
- A [SKILL Standard Library](#) of "batteries included" modules
- A [SKILL TOML config file reader and writer](#) for the [TOML standard](#)
- SKILL environment manager using [Conda](#) or [Pip](#)
- Seamless execution of SKILL from Python using [SkillBridge](#)

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