









## Raspberry Pi Pico - Template for Python

### Required Software

Name	Description	Link
<b>Python</b>	Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms.	
<b>Visual Studio Code</b>	Visual Studio Code (VSC) is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET).	

### Required Visual Studio Code Plugins

Name	Description	Link
<b>Python</b>	A Visual Studio Code extension with rich support for the Python language (for all actively supported versions of the language: >=3.7), including features such as IntelliSense (Pylance), linting, debugging, code navigation, code formatting refactoring, variable explorer, test explorer, and more!	

Name	Description	Link
<b>Pylance</b>	Pylance is an extension that works alongside Python in Visual Studio Code to provide performant language support. Under the hood, Pylance is powered by Pyright, Microsoft's static type checking tool. Using Pyright, Pylance has the ability to supercharge your Python IntelliSense experience with rich type information, helping you write better code faster.	
<b>IntelliCode</b>	The Visual Studio IntelliCode extension provides AI-assisted development features for Python, TypeScript/JavaScript and Java developers in Visual Studio Code, with insights based on understanding your code context combined with machine learning.	
<b>MicroPico</b>	"MicroPico" is a Visual Studio Code extension designed to simplify and accelerate the development of MicroPython projects for the Raspberry Pi Pico and Pico W boards. This tool streamlines the coding process, providing code highlighting, auto-completion, code snippets, and project management features, all tailored for the seamless development experience with MicroPython on Raspberry Pi Pico and Pico W microcontrollers.	

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