

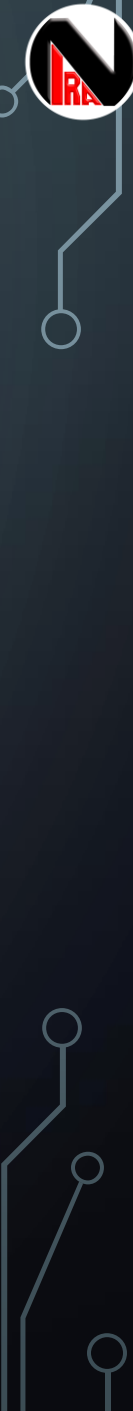


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# ARM IDEs

Ali Mirghasemi



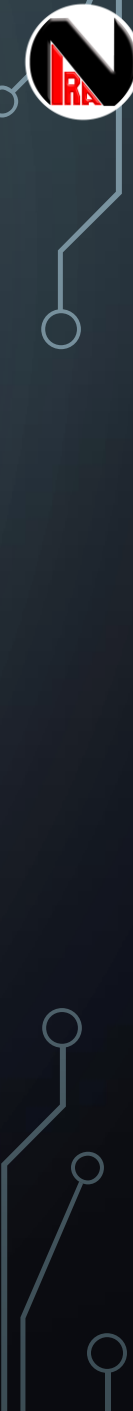
# Keil $\mu$ Vision IDE (MDK-ARM)

- **Platforms:** Windows
- **Architectures:** ARM7, ARM9, Cortex-M, Cortex-R, Cortex-A
- **Developer:** ARM
- One of the most popular IDEs for ARM development.
- Extensive support for various ARM architectures.
- [Website](#)



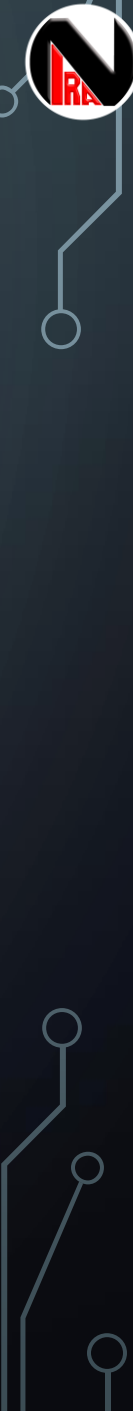
# Eclipse Embedded CDT

- **Platforms:** Windows, macOS, Linux
- **Architectures:** ARM Cortex-M, RISC-V
- **Developer:** GNU MCU Eclipse
- A free and open-source IDE with a vibrant community.
- Ideal for Cortex-M development with GNU tools integration.
- Highly customizable with support for a wide range of plugins.
- [Website](#)



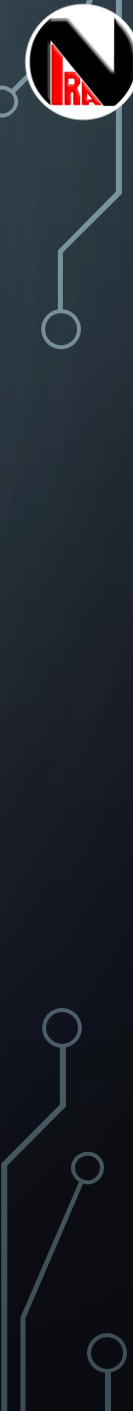
# Atollic TrueSTUDIO

- **Platforms:** Windows, Linux
- **Architectures:** ARM Cortex-M
- **Developer:** STMicroelectronics
- A robust and feature-rich IDE for Cortex-M development.
- Includes code analysis and performance profiling tools.
- Seamless integration with various ARM-based microcontrollers.
- [Website](#)



# IAR Embedded Workbench for ARM

- **Platforms:** Windows
- **Architectures:** ARM7, ARM9, Cortex-M, Cortex-R, Cortex-A
- **Developer:** IAR Systems
- A reliable and efficient IDE for ARM development.
- Widely used in industries with strict safety and security requirements.
- High optimization levels for code size and performance.
- [Website](#)



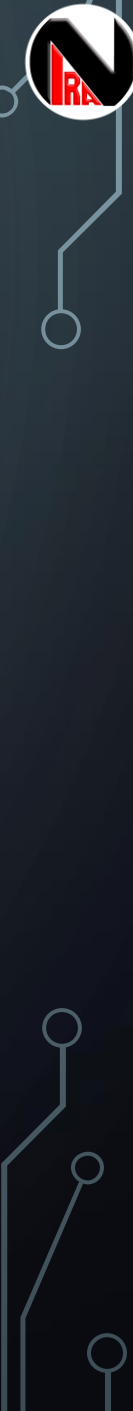
# STM32CubeIDE

- **Platforms:** Windows, macOS, Linux
- **Architectures:** ARM Cortex-M
- **Developer:** STMicroelectronics
- An official IDE by STMicroelectronics for STM32 microcontrollers.
- Built on Eclipse, offering advanced features for STM32 development.
- [Website](#)



# SEGGER Embedded Studio

- **Platforms:** Windows, macOS, Linux
- **Architectures:** ARM Cortex-M, Cortex-R
- **Developer:** SEGGER Microcontroller
- A lightweight IDE with a small footprint.
- Offers a powerful debugger and real-time code analysis.
- Suitable for resource-constrained embedded systems.
- [Website](#)



# PlatformIO IDE

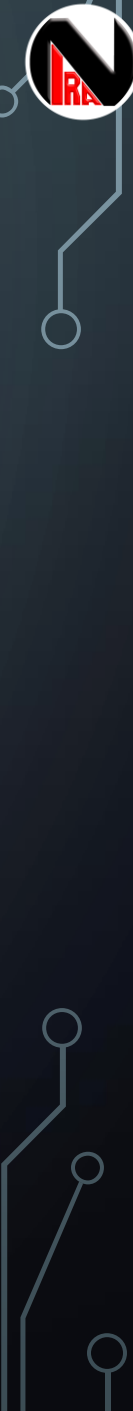
- **Platforms:** Windows, macOS, Linux
- **Architectures:** ARM Cortex-M, Cortex-R, Cortex-A
- **Developer:** PlatformIO
- An open-source IDE with extensive platform and framework support.
- Ideal for multi-platform development, including ARM-based systems.
- [Website](#)





# Visual Studio Code with Cortex-Debug Extension

- **Platforms:** Windows, macOS, Linux
- **Architectures:** ARM Cortex-M
- **Developer:** Microsoft, Cortex-Debug maintained by PlatformIO
- A versatile IDE with a wide range of extensions.
- The Cortex-Debug extension adds ARM Cortex-M debugging capabilities.
- [Website](#)



# CrossWorks for ARM

- **Platforms:** Windows
- **Architectures:** ARM7, ARM9, Cortex-M, Cortex-R, Cortex-A
- **Developer:** Rowley Associates Limited
- A comprehensive IDE designed specifically for ARM development.
- Supports a variety of ARM cores and offers advanced debugging features.
- [Website](#)



# MPLAB X IDE with XC32 Compiler

- **Platforms:** Windows, macOS, Linux
- **Architectures:** ARM Cortex-M
- **Developer:** Microchip Technology
- Microchip's IDE and XC32 Compiler for ARM Cortex-M devices.
- Well-integrated tools and libraries for efficient development.
- [Website](#)