

## Tools for Prototyping

Reference Question No: 9 \_The Inventors Challenge-2023\_ Idea Submission Form

**Microcontroller / Microprocessor Board: (Select one MCU / MPU board)**

**NUCLEO-U575ZI-Q: ARM Cortex M33 with Trust zone / 160MHz / Ultra-low power MCU with FPU/ higher Security**

STM32U575 Series Microcontroller development board with Arduino compatible expansion connector and inbuilt debugger/programmer

For more details: <https://www.st.com/en/evaluation-tools/nucleo-u575zi-q.html>

(OR)

**NUCLEO-H563ZI: ARM Cortex M33 with Trust zone / 250MHz/ High performance MCU with FPU/ higher Security**

STM32H563 Series Microcontroller development board with Arduino compatible expansion connector and inbuilt debugger/programmer

For more details: <https://www.st.com/en/evaluation-tools/nucleo-h563zi.html>

(OR)

**STM32H747I-DISCO: Dual Core ARM cortex M7 (480MHz)+ M4(240MHz) / High performance with Double precision FPU / Graphics**

STM32H747 Series Microcontroller development board with Arduino compatible expansion connector and inbuilt debugger/programmer

For more details: <https://www.st.com/en/evaluation-tools/stm32h747i-disco.html>

(OR)

**B-L475E-IOT01A: ARM Cortex M4 / 80MHz / Ultra-low power MCU with FPU**

STM32L4 Series Microcontroller development board with Arduino compatible expansion connector and inbuilt debugger/programmer, connectivity, and sensors.

For more details: <https://www.st.com/en/evaluation-tools/b-l475e-iot01a.html>

(OR)

**STM32MP135F-DK: Arm Cortex – A7 / 1GHz Processor / advanced peripherals and security**

STM32MP1 Series Microprocessor development board inbuilt debugger/programmer and sensors. Suitable for applications requiring higher processing and Linux developments.

For more details: <https://www.st.com/en/evaluation-tools/stm32mp135f-dk.html>

**Disclaimer:** Please select this STM32MP1 MPU tool for PoC if requiring Linux. Pre- requisite to have know-how on Linux ecosystem.

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**Other Board Options: (To be selected as per application needs)**

**X-NUCLEO-IKS02A1:** Motion MEMS and microphone MEMS expansion board for STM32 Nucleo

For more details: <https://www.st.com/en/ecosystems/x-nucleo-iks02a1.html>

**B-CAMS-OMV:** Camera module bundle for STM32 boards

For more details: <https://www.st.com/en/evaluation-tools/b-cams-omv.html>

**Disclaimer:** Can be used with **STM32H747I-DISCO** only.

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**Note:**

- Please follow the disclaimer while selecting the boards.
- The evaluators team have the right to change the board options selected, based on the idea being submitted by the team and the availability of the board.