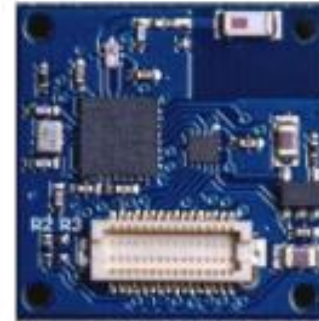


# CSE

## Microcontroller Application



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- ▶ A power source - powers the microcontroller and any accompanying components located on the printed circuit board.
- ▶ An interface - communicate with the controller.
- ▶ A set of input/output (I/O) ports - send and receive signals from the devices the microcontroller is designed to control.
- ▶ I/O ports when programmed as an output pin, each pin can output digital signals. When programmed as an input pin, each pin can receive digital signals.
- ▶ Digital-to-analog and analog-to-digital converters change the digital pulses into analog signals.

## ADVANTAGEOUS FEATURES

- ✓ Easy to use and Programmable.
- ✓ Reusable - Ability to reprogram using Flash, EEPROM or EPROM.
- ✓ Flexibility and dependable.
- ✓ Design and Simulation.
- ✓ Energy efficient, small and cost effective.
- ✓ Ports multifunctionality.
- ✓ High Integration and can fit inside other devices.
- ✓ Easy upgrade.

**Thank You**