

# Mikrokontroler

Microprocessor vs Microcontroller Key Differences Explained! - Microprocessor vs Microcontroller Key Differences Explained! 2 minutes, 28 seconds - D131024V22\_T2205 ...

Not a Microcontroller!...This is Better?! (PLC) EB#62 - Not a Microcontroller!...This is Better?! (PLC) EB#62 10 minutes, 34 seconds - Get your Mouser Reference Guide here: <https://mou.sr/4486R1W>  
Components that were used in the video: Arduino Opta: ...

PLC is Better?

Intro

PLC Hardware

Microcontroller Hardware

Price?

PLC LED Example

PLC LED Delay Example

Live Debug is AWESOME!

Conveyor Belt Hardware

Conveyor Belt Logic

Verdict

You don't need a Raspberry Pi! (Getting started with Microcontrollers) - You don't need a Raspberry Pi! (Getting started with Microcontrollers) 20 minutes - Thanks to Micro Center for sponsoring this video! Micro Center Santa Clara: <https://micro.center/9d2732> Shop Micro Center's ...

Tiny explosions, ft electricity

Learning the basics in Silicon Valley

New MC in the Valley

Getting started with PicoBricks

Hello, world on a microcontroller

Debugging a custom dusk-to-dawn light

Exploding things at Micro Center

Exploding things back home

High power, hydrogen, and electrolytic caps

Going bigger

8 Popular Microcontrollers Rank | Best S-Tier to Worst D-Tier? - 8 Popular Microcontrollers Rank | Best S-Tier to Worst D-Tier? 1 minute, 8 seconds - Discover the list of the top 8 Popular **microcontroller**, rank boards, including Arduino UNO, ESP32, and more. Watch to see where ...

What is an MCU? - Micro Controller Units Explained - What is an MCU? - Micro Controller Units Explained 3 minutes, 7 seconds - Looking for an MCU? Check our offer right here: ...

What is MCU?

CPU

Memory

Peripherals

Advantages of MCU

Outro

Microcontroller Showdown: Which One Wins for Your Project? - Microcontroller Showdown: Which One Wins for Your Project? 17 minutes - Ultimate Guide - How to Develop and Prototype a New Electronic Product: ...

THE AVAILABILITY OF THE PROPER SOFTWARE AND HARDWARE TOOLS IS A PRIME CONSIDERATION

APPLICATION PROGRAMMING

ON TOP OF A PROCESSING UNIT

PIN DEVICES

UP TO CHIPS WITH 64 PINS

8051 SERIES

MPLAB CODE CONFIGURATOR

ENCRYPTION ENGINES

DMA CONTROLLERS Direct Memory Access Controllers

ANALOG SENSOR INTERFACES

AND DIGITAL SIGNAL PROCESSING (DSP)

On-board Debuggers Allows peeking into registers and other areas of the system to facilitate application code debugging.

REAL TIME OPERATING SYSTEMS (RTOS)

Capacitive touch plates

AND DOWNLOAD CODE

## FOR QUICK PROOF OF CONCEPT DESIGNS

How to pick the best microcontroller for your project - Electronics with Becky Stern | DigiKey - How to pick the best microcontroller for your project - Electronics with Becky Stern | DigiKey 8 minutes, 3 seconds - If you want to build an electronics project but don't know what **microcontroller**, to choose, this video is for you. Learn the different ...

Intro

Identify Project's Key Features

Arduino Uno, A Popular Beginner Board

Considering 32 Bit Boards

SoC Boards

Consider Your Abilities and Project Requirements - with Room To Grow

The Boards Guide

Microcontroller Selection in Action

An Arduino Mega for Penny's Computer Book

A Platform for the LED Curtain

An Arduino Micro for the LED Painting

A Few On-Hand Arduino Uno's for the LED Poles

A Xiao RP2040 for the Mermaid Hair Project

A Gemma M0 for Halloween Wearables

Outro

Think Big with the World's Smallest Microcontroller - Think Big with the World's Smallest Microcontroller 55 seconds - Enabling big innovations with tiny chips. Watch how TI's low-cost Arm® Cortex®-M0+ MCUs enable you to optimize board space ...

Embedded System Equipments ???????????? | Technical Upskilling |Entri - Embedded System Equipments ????????????? | Technical Upskilling |Entri 7 minutes, 56 seconds - Get ready to dive into the world of electronics! In this video, we'll unbox the Embedded System Toolkit and explore each ...

Smallest and cheapest microcontroller - tutorial - Smallest and cheapest microcontroller - tutorial 9 minutes, 15 seconds - SUBSCRIBE HERE: [https://www.youtube.com/channel/UCit2rVgOvhyuAD-VH5H\\_IHg?sub\\_confirmation=1](https://www.youtube.com/channel/UCit2rVgOvhyuAD-VH5H_IHg?sub_confirmation=1) I will try to show you ...

Which microcontroller is best for you? - Which microcontroller is best for you? 22 minutes - Welcome to our very first episode of The Electomaker Educator! In this video, we will explore the most common microcontrollers ...

Intro

Microcontroller vs. Microcontroller board

PIC Microcontrollers

AVR Microcontrollers

STM8 Microcontrollers

STM32

RP2040

Who wins?

What do I use?

8051 Microcontroller ICs : Overview - (1/3) - 8051 Microcontroller ICs : Overview - (1/3) 5 minutes, 1 second - If you want to say hi to me. you can say at my twitter @Eggtronics31 If you want to support my Channel: below is my Patreon Link.

Intro

ASP

Index Based

Norton

Atmos

Which 10 Cent Microcontroller is Right for You? Comparing the CH32V003 to the PY32F002A. - Which 10 Cent Microcontroller is Right for You? Comparing the CH32V003 to the PY32F002A. 27 minutes - The WCH CH32V003 and the Puya PY32F002A are both ultra-cheap 32-bit microcontrollers. Coming in at around 10 cents each, ...

Introduction

RISC-V vs. ARM Cortex M

When should you use these

Cost and availability

Feature comparison

Getting started with the CH32

LED blink example

Sending ADC value over serial example

So which is better?

What is a Microcontroller? Ft. The Raspberry Pi Pico - Kitronik - What is a Microcontroller? Ft. The Raspberry Pi Pico - Kitronik 1 minute, 15 seconds - In this video, Alasdair gives us a brief overview of the **microcontroller**., using the Raspberry Pi Pico for reference. For a more ...

What is a microcontroller and how microcontroller works - What is a microcontroller and how microcontroller works 10 minutes, 55 seconds - This video explains what is a **microcontroller**., from what **microcontroller**, consists and how it operates. This video is intended as an ...

Intro

Recap

Logic Gate

Program

Program Example

Assembly Language

Programming Languages

Applications

How Arm Powers Chips By Apple, Amazon, Google And More - How Arm Powers Chips By Apple, Amazon, Google And More 15 minutes - Arm beat expectations in its first post-IPO earnings report Wednesday. Its low-power chip architecture is in nearly every ...

Introduction

Apple and smartphone dominance

Cash and competition

Diversification and IP

China and other risks

RISC-V was supposed to change everything—How's it going? - RISC-V was supposed to change everything—How's it going? 14 minutes, 26 seconds - RISC-V shenanigans with GPUs and AAA games on the HiFive Premier P550. The HiFive Premier P550 and case were provided ...

RISC architecture's gonna change everything

The fastest RISC-V Dev Board

Hardware overview and quirks

Potential, not realized

PCIe - NVMe performance

PCIe - AMD GPU support

What about AAA Windows x86 games?

What about Indie Windows x86 games?

LLMs make more sense than games

What is a microcontroller? ft. Raspberry Pi Pico - What is a microcontroller? ft. Raspberry Pi Pico 4 minutes, 29 seconds - We've released our own **microcontroller**,...but what exactly IS a **microcontroller**? Subscribe to our channel: <http://rptl.io/youtube> ...

What is a microcontroller?

Getting started with Raspberry Pi Pico

Get started with MicroPython on Raspberry Pi Pico

Run Neural Networks on ANY Microcontroller! - Run Neural Networks on ANY Microcontroller! 13 minutes, 58 seconds - Neural networks on an Arduino? Yep — it's possible, and actually not that hard. In this video, you'll learn how to design, train, and ...

How neural networks work.

Network training with Backpropagation

Implementing model in Arduino sketch

Network optimization

Artificial Intelligence for Embedded Systems (AIfES)

Texas Instruments Shows Off World's Smallest Microcontroller (MSPM0C1104) - Texas Instruments Shows Off World's Smallest Microcontroller (MSPM0C1104) 4 minutes, 3 seconds - At Embedded World 2025, Brian Tristram Williams visited the @TexasInstruments booth to check out the world's smallest ...

Teensy 4.1: The Most Overpowered Microcontroller Board? - Teensy 4.1: The Most Overpowered Microcontroller Board? 6 minutes, 9 seconds - In this episode of Product of the Week, Robin dives into the Teensy 4.1, an incredibly powerful **microcontroller**, board that's ...

Meet the Teensy 4.1

Performance and Features Overview

Why It Feels Overengineered

Core Specs and Memory

USB, SD, and Ethernet Capabilities

I/O, PWM, and Audio Interface

Cryptography and Graphical Control

Project Applications

Final Thoughts and How to Win One

How a Microcontroller starts - How a Microcontroller starts 28 minutes - Practical Notes on Embedded (starts with a guide to learning embedded by building): <https://artfulbytes.com/> ----- We explore the ...

Overview

Create a basic project in STM32CubeIDE

Review STM32 startup code (assembly)

Write startup code from scratch (C)

Discard libc, startfiles and default linker script

Startup file

Linker script

Debug

C runtime init (CRT0)

Link with libc (Newlib)

\_\_libc\_init\_array (constructors)

system\_init and \_start

Final thoughts

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