

Making Embedded Systems Design Patterns For Great Software

Elecia White

Running out of Cycles
Fancy Shmancy Other Tools
Memory Configuration
CHOOSING AN LCD DISPLAY
Embedded is going everywhere
USB 2.0 Pin Definition
Debugging
IoT Light Programming Systems
Diagram
Filling out Schematic from Pin Definitions
Elecia's thoughts on self-driving cars
Principles
Patterns
Embedded System Design Process |MCES| Ms.G.Manisha, Assistant Professor, CSE, RMDEC - Embedded System Design Process |MCES| Ms.G.Manisha, Assistant Professor, CSE, RMDEC 3 minutes, 15 seconds - This video explains about **Embedded system Design**,.
How big is the embedded world?
SPI Bus Pin Definition
Programming non-computers
Outro
Introduction to Embedded Systems (O'Reilly Expert Webinar) - Introduction to Embedded Systems (O'Reilly Expert Webinar) 1 hour, 14 minutes - ... systems engineer at Logical Elegance and the author of **Making Embedded Systems,: Design Patterns**, for **Great Software**,, ...
Visualizer Output
Making Embedded Systems: Design Patterns for Great Software - Elecia White - Making Embedded Systems: Design Patterns for Great Software - Elecia White 3 minutes, 5 seconds - Listen to this audiobook in full for free on <https://hotaudiobook.com> Title: **Making Embedded Systems,: Design Patterns**, for **Great**, ...
WIRING THE LCD
Remember the Whys
GoPro is embedded
Mentoring for embedded
Adding MCU to BOM and Schematic
Resource Constrained
Security
Debug Interface (SWD)
UART Pin Definition
2016 Computer Society Officers
GPIO Pin Definition
Welcoming Elecia
Map File Walkthrough
Buried Treasure and Map Files - Buried Treasure and Map Files 35 minutes - Often overlooked, the map file can provide a wealth of information to the intrepid developer. Map files can help with optimizing for ...
CHOOSING A MICROCONTROLLER
How to Use Map Files
Low Power
Intro
Design Patterns for Embedded Systems in C - Design Patterns for Embedded Systems in C 1 hour, 3 minutes - This talk discusses **design patterns**, for real-time and **embedded systems**, developed in the C language. Design is all about ...
Internationalization
November 15th
Embedded.fm and other places
Heaps and Stacks
Decoupling Capacitors
Crunch Labs!
Pattern
Principles I followed
Balancing Speed and Security: The Open Source Dilemma in Embedded Development - Balancing Speed and Security: The Open Source Dilemma in Embedded Development 29 minutes - In this episode of Exploited: The Cyber Truth, host Paul Ducklin is joined by RunSafe Security Founder and CEO Joseph M.
How to Create a Software Architecture | Embedded System Project Series #6 - How to Create a Software Architecture | Embedded System Project Series #6 24 minutes - I talk about the **software**, architecture of my sumobot and show a block diagram that will keep us oriented in the coming ...
Learn the Language
Why this architecture?
A few comments
HARDWARE CONFIGURATION ON STM32CUBEMX
Wrapping up
SILICON VALLEY
What this tutorial is, and what it isn't
DEFINING POWER RAILS
IoT-Light Software Block Diagram
General
WIRING THE DEBUGGER / PROGRAMMER
Outline
Intro to the project!
Scorecard
The constraints of embedded
Sumobot Software Architecture
Why Map Files
Last words
Proof of Concept: IoT Light
Playback
Innately Difficult Problems
I Love Math
Disclaimer
IoT Light: Proof of Concept
The chasm between sim and real
Example Project: IoT Light
Profiling Methods
Debugging Remotely
Subtitles and closed captions
Keyboard shortcuts
Drivers layer
IoT, let us 'opt out'
What do you want to build next?
ADC Pin Definition
The world of embedded systems | Elecia White - The world of embedded systems | Elecia White 1 hour, 24 minutes - Elecia White,, host of @Embeddedfm and author of **"Making Embedded Systems"**, joins us to discuss all things **embedded systems**, ...
The moment of discovery
Search filters
Traeger smokers are embedded
Self-driving on a closed-system
WIRING THE PUSH BUTTONS
IEEE Computer Society Membership
December 6th
DEFINING SCOPE
REQUIREMENTS
475: Stuffed Animal or Colleague - 475: Stuffed Animal or Colleague 1 hour, 9 minutes - Chris and **Elecia**, talk about the **Embedded**, Online Conference, their experience learning Zephyr, and some listener questions.
Spherical Videos
Downloading Firmware
Picking Decoupling Capacitors from Digikey
Intro
Tools of Dubious Quality
What Are the Tricky Parts?
Bootloaders
Not Your Code
Bug in the Sample Code
Application layer
Wokwi is cool
How to DESIGN an EMBEDDED SYSTEM - Schematics
Architecture - How to DESIGN an EMBEDDED SYSTEM - Schematics
Architecture 46 minutes - In this series we are **designing**, an **embedded**, device from start to finish - from schematics and hardware all the way to firmware ...
What is embedded?
USB POWER INPUT CIRCUIT
How Elecia got started
Why organize software?
Open source + embedded
Enhancing Firmware Architecture with Design Patterns - Enhancing Firmware Architecture with Design Patterns 1 minute, 8 seconds - Improve your firmware architecture with powerful **design patterns**,! ☼ Learn how patterns like Singleton, Observer, and State ...
Tricky Parts of Embedded given at IEEE-CS (SiliconValley) - Tricky Parts of Embedded given at IEEE-CS (SiliconValley) 1 hour, 4 minutes - Embedded software, is not like other **software**,; working close to the hardware has a special set of challenges. **Elecia**, will provide ...
6. Liturgy Memorization
Elecia loves Kalman filters!
How to think?
SIGNAL INPUT STAGE
Picking LEDs and Resistors from Digikey
Pragmatic Embedded SW Design - Pragmatic Embedded SW Design 1 hour, 28 minutes - for more details, visit www.swift-act.com or <https://www.facebook.com/groups/EmbeddedSystemsTraining/>
Calendar Time
Map Files!
Design Patterns for Embedded Applications - Design Patterns for Embedded Applications 6 minutes, 2 seconds - Get the full course on Udemy at <https://www.udemy.com/course/object-oriented-design,-for-embedded,-apps-solid-fundamentals/>
What else is cool?
Hardware diagram
Timing Is Hard
Intro
Another Map File
BOM Update
BREAKING DOWN A SYSTEM
Over-theorizing
472: Field of Boxes - 472: Field of Boxes 1 hour, 2 minutes - Making Embedded Systems,, 2nd Edition came out today! Chris and **Elecia**, talk about the changes, the writing, but not the eldritch ...
Bill of Materials (BOM)
When NPR calls
The pAlLED Making Embedded Systems Final Project - The pAlLED Making Embedded Systems Final Project 14 minutes, 4 seconds - The video for Carrie's final project for **Making Embedded Systems**, taught by **Elecia White**, on Classpert. If you want to be a **better**, ...
IoT-Light Memory Layout
Embedded Development Tools
Books
What Is an Embedded System?

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