

# **SHORT TERM TRAINING PROGRAM ON ARDUINO MICROCONTROLLERS**

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Dept. of Electrical & Electronics Engineering  
Amal Jyothi College of Engineering, Kottayam

## **Syllabus Outline with Duration**

- **Unit 1 – Basic Electronics + Lab+ Projects**  
(T-20hrs + L-20hrs + P-10hrs)
- **Unit 2 – Introduction to Embedded C for Arduino+ Lab + Projects**  
(T-30hrs + L-30hrs + P-20)
- **Unit 3 – Basics of Arduino Microcontrollers (Uno 328 and Mega 2560)**  
(T-25hrs)
- **Unit 4 – Arduino Simulation Training Using Proteus (Lab)**  
(L-20hrs)
- **Unit 5 – Projects based on Arduino (Includes Robotic Workshop)**  
(P-25hrs)

# Arduino Microcontrollers Projects Lab Manual

**Brock Craft**



## **Arduino Microcontrollers Projects Lab Manual:**

**Creative DIY Microcontroller Projects with TinyGo and WebAssembly** Tobias Theel, 2021-05-14 Explore embedded programming and get hands on with real world embedded projects relating to IoT low powered devices and other complex systems using TinyGo and WebAssembly Key Features Build creative embedded apps with TinyGo using low powered devices and microcontrollers Understand the practicality involved in integrating hardware and sensors while programming them using TinyGo Use TinyGo in modern browsers to display embedded applications statistics on WebAssembly dashboards Book Description While often considered a fast and compact programming language Go usually creates large executables that are difficult to run on low memory or low powered devices such as microcontrollers or IoT TinyGo is a new compiler that allows developers to compile their programs for such low powered devices As TinyGo supports all the standard features of the Go programming language you won't have to tweak the code to fit on the microcontroller This book is a hands on guide packed full of interesting DIY projects that will show you how to build embedded applications You will learn how to program sensors and work with microcontrollers such as Arduino UNO and Arduino Nano IoT 33 The chapters that follow will show you how to develop multiple real world embedded projects using a variety of popular devices such as LEDs 7 segment displays and timers Next you will progress to build interactive prototypes such as a traffic lights system touchless hand wash timer and more As you advance you'll create an IoT prototype of a weather alert system and display those alerts on the TinyGo WASM dashboard Finally you will build a home automation project that displays stats on the TinyGo WASM dashboard By the end of this microcontroller book you will be equipped with the skills you need to build real world embedded projects using the power of TinyGo What you will learn Discover a variety of TinyGo features and capabilities while programming your embedded devices Explore how to use display devices to present your data Focus on how to make TinyGo interact with multiple sensors for sensing temperature humidity and pressure Program hardware devices such as Arduino Uno and Arduino Nano IoT 33 using TinyGo Understand how TinyGo works with GPIO ADC I2C SPI and MQTT network protocols Build your first TinyGo IoT and home automation prototypes Integrate TinyGo in modern browsers using WebAssembly Who this book is for If you are a Go developer who wants to program low powered devices and hardware such as Arduino UNO and Arduino Nano IoT 33 or if you are a Go developer who wants to extend your knowledge of using Go with WebAssembly while programming Go in the browser then this book is for you Go hobbyist programmers who are interested in learning more about TinyGo by working through the DIY projects covered in the book will also find this hands on guide useful [DIY Microcontroller Projects for Hobbyists](#) Miguel Angel Garcia-Ruiz, Pedro Cesar Santana Mancilla, 2021-07-30 A practical guide to building PIC and STM32 microcontroller board applications with C and C programming Key Features Discover how to apply microcontroller boards in real life to create interesting IoT projects Create innovative solutions to help improve the lives of people affected by the COVID 19 pandemic Design build program and test microcontroller based projects with the C

and C programming language Book Description We live in a world surrounded by electronic devices and microcontrollers are the brains of these devices Microcontroller programming is an essential skill in the era of the Internet of Things IoT and this book helps you to get up to speed with it by working through projects for designing and developing embedded apps with microcontroller boards DIY Microcontroller Projects for Hobbyists are filled with microcontroller programming C and C language constructs You ll discover how to use the Blue Pill containing a type of STM32 microcontroller and Curiosity Nano containing a type of PIC microcontroller boards for executing your projects as PIC is a beginner level board and STM 32 is an ARM Cortex based board Later you ll explore the fundamentals of digital electronics and microcontroller board programming The book uses examples such as measuring humidity and temperature in an environment to help you gain hands on project experience You ll build on your knowledge as you create IoT projects by applying more complex sensors Finally you ll find out how to plan for a microcontroller based project and troubleshoot it By the end of this book you ll have developed a firm foundation in electronics and practical PIC and STM32 microcontroller programming and interfacing adding valuable skills to your professional portfolio What you will learn Get to grips with the basics of digital and analog electronics Design build program and test a microcontroller based system Understand the importance and applications of STM32 and PIC microcontrollers Discover how to connect sensors to microcontroller boards Find out how to obtain sensor data via coding Use microcontroller boards in real life and practical projects Who this book is for This STM32 PIC microcontroller book is for students hobbyists and engineers who want to explore the world of embedded systems and microcontroller programming Beginners as well as more experienced users of digital electronics and microcontrollers will also find this book useful Basic knowledge of digital circuits and C and C programming will be helpful but not necessary [The Complete MD/PhD Applicant Guide](#) Jonathan Sussman, Jordan Setayesh, Amitej Venapally, 2020-09-22 This book is a student reference guide book for the MD PhD application process It begins with an overview of the structure of a typical MD PhD program as well as student outcomes and career choices of MD PhD graduates Next is an outline of the academic and extracurricular prerequisites as well as the basic components of the application itself The authors then address the factors that MD PhD students should consider when selecting schools to which to apply Continuing to the main application examples are provided of all the different essay types that MD PhD applicants will encounter along with comments on how to address the deliberately vague and abstract prompts while tailoring the responses to the combined degree program Most uniquely included is a very detailed explanation of the many types of interviews that applicants will encounter and how to prepare for them by integrating extensive personal experience and first hand discussions with MD PhD program leaders Lastly there will be a discussion on how to cope with the year long timeline that constitutes this application process and provide guidance regarding properly responding to acceptances and waitlist offers Written by a team of authors each experienced with the MD PhD application this book aids the prospective applicant with navigating this challenging process [Arduino Project](#)

Handbook Mark Geddes,2016-06-01 Arduino Project Handbook is a beginner friendly collection of electronics projects using the low cost Arduino board With just a handful of components an Arduino and a computer you ll learn to build and program everything from light shows to arcade games to an ultrasonic security system First you ll get set up with an introduction to the Arduino and valuable advice on tools and components Then you can work through the book in order or just jump to projects that catch your eye Each project includes simple instructions colorful photos and circuit diagrams and all necessary code Arduino Project Handbook is a fast and fun way to get started with micro controllers that s perfect for beginners hobbyists parents and educators Uses the Arduino Uno board      **Arduino Sketches** James A. Langbridge,2015-01-12 Master programming Arduino with this hands on guide Arduino Sketches is a practical guide to programming the increasingly popular microcontroller that brings gadgets to life Accessible to tech lovers at any level this book provides expert instruction on Arduino programming and hands on practice to test your skills You ll find coverage of the various Arduino boards detailed explanations of each standard library and guidance on creating libraries from scratch plus practical examples that demonstrate the everyday use of the skills you re learning Work on increasingly advanced programming projects and gain more control as you learn about hardware specific libraries and how to build your own Take full advantage of the Arduino API and learn the tips and tricks that will broaden your skillset The Arduino development board comes with an embedded processor and sockets that allow you to quickly attach peripherals without tools or solders It s easy to build easy to program and requires no specialized hardware For the hobbyist it s a dream come true especially as the popularity of this open source project inspires even the major tech companies to develop compatible products Arduino Sketches is a practical comprehensive guide to getting the most out of your Arduino setup You ll learn to Communicate through Ethernet WiFi USB Firmata and Xbee Find import and update user libraries and learn to create your own Master the Arduino Due Esplora Yun and Robot boards for enhanced communication signal sending and peripherals Play audio files send keystrokes to a computer control LED and cursor movement and more This book presents the Arduino fundamentals in a way that helps you apply future additions to the Arduino language providing a great foundation in this rapidly growing project If you re looking to explore Arduino programming Arduino Sketches is the toolbox you need to get started      Arduino Projects for Amateur Radio Jack Purdum,Dennis Kidder,2014-09-04 BOOST YOUR HAM RADIO S CAPABILITIES USING LOW COST ARDUINO MICROCONTROLLER BOARDS Do you want to increase the functionality and value of your ham radio without spending a lot of money This book will show you how Arduino Projects for Amateur Radio is filled with step by step microcontroller projects you can accomplish on your own no programming experience necessary After getting you set up on an Arduino board veteran ham radio operators Jack Purdum W8TEE and Dennis Kidder W6DQ start with a simple LCD display and move up to projects that can add hundreds of dollars worth of upgrades to existing equipment This practical guide provides detailed instructions helpful diagrams lists of low cost parts and suppliers and hardware and software tips that make building your own equipment

even more enjoyable Downloadable code for all of the projects in the book is also available Do it yourself projects include LCD shield Station timer General purpose panel meter Dummy load and watt meter CW automatic keyer Morse code decoder PS2 keyboard CW encoder Universal relay shield Flexible sequencer Rotator controller Directional watt and SWR meter Simple frequency counter DDS VFO Portable solar power source

*Continuing Engineering Education for a Sustainable Future* Patricia Caratozzolo, Angeles Dominguez, Bente Nørgaard, Guillermo M. Chans, 2025-08-06 The World Economic Forum stated in its 2023 Future of Jobs report that 44% of workers skills will change in the next five years Additionally six out of ten workers will require training before 2027 and only half will have adequate training opportunities With this in mind the three most pressing challenges currently facing the Continuing Engineering Education CEE community include 1 The shifting skill requirements dictated by the job market Engineering roles in various sectors are evolving demanding a mix of Knowledge Skills and Abilities KSA that is difficult to predict with certainty In addition the pace of Digital Transformation will highly influence these requirements 2 The climate change mitigation and adaptation Engineers must reskill and adapt to changing sustainability requirements and educational programs must support this transition 3 The underrepresentation of minorities Women racial and ethnic minorities and individuals with disabilities face disparities in opportunities mentorship and inclusion

**Embedded Controllers Using C and Arduino** James Fiore, 2016-03-21 This is the companion laboratory manual to accompany Embedded Controllers Using C and Arduino The fifteen lab exercises range from introductory C programming concepts to interesting and useful device applications Exercises cover topics such as basic digital and analog input output programming and interfacing multiplexing of LED displays how to generate a true analog output use of interrupts and the like Applications include a reaction timer an event counter motor drive using PWM and an arbitrary analog waveform generator Most exercises can be completed using just a computer the low cost Arduino Uno development board and an array of small electronic parts such as LEDs resistors transistors etc Some exercises benefit from an oscilloscope This is the print version of the on line OER

**Arduino Programming Crash Course For Beginners To Pro** Roger Edward, 2020-09-10 Do you wish to know more about Arduino Then read on The Arduino board is a small powerful technology that can be used to produce wonderful magic It is capable of performing different functions and it is very easy to operate With this book you will be furnished with the step by step process on how to set up your Arduino board as well as program the software correctly This book contains images and icons to teach the reader how to set up and configure the Arduino software without making any errors With this book in your hands any dummy can set up and learn the different types of programming languages Some of the things you will get in this book include Introduction to Arduino What Arduino is used for What are Microcontrollers Types of Arduino Board and how to set them up for use How to Install the Arduino Software How to Install the Arduino IDE on Windows How to Install Drivers for Older Arduino Boards How to Install the Arduino IDE on Mac OS X How to Install the Arduino IDE on Linux How to operate the Arduino software Arduino Data Types How to

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Basic Arduino Projects Don Wilcher, 2014-02-10 This companion book to MakerShed's Ultimate Arduino Microcontroller Pack provides 26 clearly explained projects that you can build with this top selling kit right away including multicolor flashing lights timers tools for testing circuits sound effects motor control and sensor devices With the Ultimate Arduino Microcontroller Pack you'll find everything from common components such as resistors and capacitors to specialized sensors and actuators like force sensing resistors and motors The kit also features the Arduino Uno Microcontroller and a MakerShield the definitive prototyping shield for Arduino Build 26 cool mini Arduino projects and gadgets Work on projects that are both instructive and have practical application Get circuit diagrams and detailed instructions for building each project Understand circuit design and simulation with easy to use tools

**Hands-on ESP32 with Arduino IDE** Asim Zulfiqar, 2024-01-19 Build a strong foundation in IoT development and take your skills to the next level by mastering ESP32 and Arduino IDE 2.0 learning IoT protocols and automating your projects Key Features Learn how to Interface ESP32 with various components for IoT projects Understand IoT protocols and automation theories with practical examples Implement automation and IoT knowledge in ESP32 projects for real world applications Purchase of the print or Kindle book includes a free PDF eBook Book Description ESP32 is a versatile microcontroller and a great starting point for anyone venturing into the IoT realm but its configuration and interfacing of sensors can be challenging for new users Arduino Integrated Development Environment IDE simplifies programming uploading code and utilization of ESP32 capabilities enabling users to incorporate it into their IoT projects with ease This book will help you learn the essentials of sensing networking data processing and applications with ESP32 laying a strong foundation for further IoT development Starting with ESP32 and Arduino IDE 2.0 basics you'll first explore practical implementation examples of interfacing sensors with ESP32 These examples will also teach you how to interface the ESP32 camera and display modules with ESP32 As you progress you'll get to grips with IoT network and data protocols as well as the many options they unlock within IoT applications The book will also help you leverage your newly acquired knowledge with exciting projects ranging from smart connected devices to data loggers and automation By the end of this book you'll confidently navigate ESP32 projects with newfound knowledge and skills know what IoT protocol to select for your applications and successfully build and deploy your own IoT projects What you will learn Understand the architecture of ESP32 including all its ins and outs Get to grips with writing code for ESP32 using Arduino IDE 2.0 Interface sensors with ESP32 focusing on the science behind it Familiarize yourself with the architecture of various IoT network protocols in depth Gain an understanding of the network protocols involved in IoT device communication Evaluate and select the ideal data based IoT protocol for your project or application Apply IoT principles to real world

projects using Arduino IDE 2.0 Who this book is for This book is for electronics enthusiasts hobbyists and other professionals looking to design IoT applications utilizing ESP32 While it is designed to be accessible for beginners a basic understanding of electronics and some experience with programming concepts is a prerequisite Practical Electronics for Inventors, Third Edition Paul Scherz, Simon Monk, 2013-01-31 The revised corrected and up to date reboot of a comprehensive classic

**Practical Arduino Engineering** Harold Timmis, 2012-01-21 Arduino boards have impressed both hackers and professional engineers Whether you're a hobbyist or a professional it isn't just a breadboard and a hazy idea that keeps you going It's essential to institute a proper design device instrumentation and indeed test your project thoroughly before committing to a particular prototype Practical Arduino Engineering begins by outlining the engineering process from the basic requirements and preliminary design to prototyping and testing Each and every chapter exemplifies this process and demonstrates how you can profit from the implementation solid engineering principles regardless of whether you just play in your basement or you want to publicize and sell your devices Arduino is a brilliant prototyping platform that allows users to test and iterate design ideas Imitation by other Arduino makers hackers and engineers often proves your design's popularity Practical Arduino Engineering will teach you to follow the engineering process carefully over time you will be able to review and improve this process and even extend its scope Practical Arduino Engineering is not purely theoretical In addition you'll learn the process of hardware engineering as applicable to Arduino projects and the importance of the process in each and every project presented in this book To set the stage Practical Arduino Engineering begins by reviewing the Arduino software landscape then shows how to set up an Arduino project for testing Even if you already know your compiler toolchain and the basics of Arduino programming this refresher course can help fill in the gaps and explain why your compiler may spit out certain error messages Practical Arduino Engineering then gradually builds up the engineering process from single devices like LCDs potentiometers and GPS modules to the integration of several modules into larger projects such as a wireless temperature measurement system and ultimately an entire robot The engineering projects become progressively more challenging throughout the first 4 engineering chapters Next you'll proceed with simple steps towards the first intelligent part of a robot the object detector You'll find yourself teaching your robot how to avoid very hot objects or insurmountable obstacles The basic design requirements for a complete robot and indeed the detailed design and prototyping for robots can be extremely tricky which is why engineering discipline is invaluable Practical Arduino Engineering then enters the world of domestic engineering by introducing home alarm systems not quite as simple as they seem A solid robust system can only be built by following the engineering process detailed in previous chapters and this section reinforces that process You'll then take a step further in your Arduino engineering process instrumentation and control and some error messaging using GSM Control is introduced via the Xbox controller a very powerful piece of technology able to play a considerable role in robotics projects Having already learned to control motion and to sense and avoid objects you'll learn how to debug your Arduino



projects of varying complexities via the hardware instrumentation software LabVIEW To complete the journey into Practical Arduino Engineering you ll discover how to use a special Arduino board to rely on Bluetooth Mate Silver for control of domestic and mobile Arduino projects Using Bluetooth Mate Silver you ll learn to implement basic engineering design with almost any Arduino project and be able to justify build debug and extend Arduino based designs using a solid engineering approach Please note the print version of this title is black the eBook is full color

**CompTIA PenTest+ Certification All-in-One Exam Guide (Exam PT0-001)** Raymond Nutting,2018-12-14 This comprehensive exam guide offers 100% coverage of every topic on the CompTIA PenTest exam Get complete coverage of all the objectives included on the CompTIA PenTest certification exam PT0 001 from this comprehensive resource Written by an expert penetration tester the book provides learning objectives at the beginning of each chapter hands on exercises exam tips and practice questions with in depth answer explanations Designed to help you pass the exam with ease this definitive volume also serves as an essential on the job reference Covers all exam topics including Pre engagement activities Getting to know your targets Network scanning and enumeration Vulnerability scanning and analysis Mobile device and application testing Social engineering Network based attacks Wireless and RF attacks Web and database attacks Attacking local operating systems Physical penetration testing Writing the pen test report And more Online content includes Interactive performance based questions Test engine that provides full length practice exams or customized quizzes by chapter or by exam domain

**Hacking Electronics: An Illustrated DIY Guide for Makers and Hobbyists** Simon Monk,2013-03-12 Bring your electronic inventions to life This full color book is impressive there are some really fun projects GeekDad Wired com Who needs an electrical engineering degree This intuitive guide shows how to wire disassemble tweak and re purpose everyday devices quickly and easily Packed with full color illustrations photos and diagrams Hacking Electronics teaches by doing each topic features fun easy to follow projects Discover how to hack sensors accelerometers remote controllers ultrasonic rangefinders motors stereo equipment microphones and FM transmitters The final chapter contains useful information on getting the most out of cheap or free bench and software tools Safely solder join wires and connect switches Identify components and read schematic diagrams Understand the how and why of electronics theory Work with transistors LEDs and laser diode modules Power your devices with a c supplies batteries or solar panels Get up and running on Arduino boards and pre made modules Use sensors to detect everything from noxious gas to acceleration Build and modify audio amps microphones and transmitters Fix gadgets and scavenge useful parts from dead equipment

**Arduino Projects For Dummies** Brock Craft,2013-06-24 Discover all the amazing things you can do with Arduino Arduino is a programmable circuit board that is being used by everyone from scientists programmers and hardware hackers to artists designers hobbyists and engineers in order to add interactivity to objects and projects and experiment with programming and electronics This easy to understand book is an ideal place to start if you are interested in learning more about Arduino s vast capabilities Featuring an array of cool projects this Arduino

beginner guide walks you through every step of each of the featured projects so that you can acquire a clear understanding of the different aspects of the Arduino board Introduces Arduino basics to provide you with a solid foundation of understanding before you tackle your first project Features a variety of fun projects that show you how to do everything from automating your garden s watering system to constructing a keypad entry system installing a tweeting cat flap building a robot car and much more Provides an easy hands on approach to learning more about electronics programming and interaction design for Makers of all ages Arduino Projects For Dummies is your guide to turning everyday electronics and plain old projects into incredible innovations Get Connected To find out more about Brock Craft and his recent Arduino creations visit [www.facebook.com/ArduinoProjectsForDummies](http://www.facebook.com/ArduinoProjectsForDummies) [Arduino Project Handbook, Volume 2](#) Mark Geddes,2017-08-29 This second volume of the Arduino Project Handbook delivers 25 more beginner friendly electronics projects Get up and running with a crash course on the Arduino and then pick any project that sparks your interest and start making Each project includes cost and time estimates simple instructions colorful photos and circuit diagrams a troubleshooting section and the complete code to bring your build to life With just the Arduino board and a handful of components you ll make gadgets like a rainbow light display noise level meter digital piano GPS speedo meter and fingerprint scanner This collection of projects is a fast and fun way to get started with microcontrollers that s perfect for beginners hobbyists parents and educators 25 Step by Step Projects LED Light Bar Light Activated Night Light Seven Segment LED Countdown Timer LED Scrolling Marquee Mood Light Rainbow Strip Light NeoPixel Compass Arduino Piano Audio LED Visualizer Old School Analog Dial Stepper Motor Temperature Controlled Fan Ultrasonic Range Finder Digital Thermometer Bomb Decoder Game Serial LCD Screen Ultrasonic People Counter Nokia 5110 LCD Screen Pong Game OLED Breathalyzer Ultrasonic Soaker Fingerprint Scanner Ultrasonic Robot Internet Controlled LED Voice Controlled LED GPS Speedometer Uses the Arduino Uno board **Exploring Arduino** Jeremy Blum,2013-07-16 Learn to easily build gadgets gizmos robots and more using Arduino Written by Arduino expert Jeremy Blum this unique book uses the popular Arduino microcontroller platform as an instrument to teach you about topics in electrical engineering programming and human computer interaction Whether you re a budding hobbyist or an engineer you ll benefit from the perfectly paced lessons that walk you through useful artistic and educational exercises that gradually get more advanced In addition to specific projects the book shares best practices in programming and design that you can apply to your own projects Code snippets and schematics will serve as a useful reference for future projects even after you ve mastered all the topics in the book Includes a number of projects that utilize different capabilities of the Arduino while interfacing with external hardware Features chapters that build upon each other tying in concepts from previous chapters to illustrate new ones Includes aspects that are accompanied by video tutorials and other multimedia content Covers electrical engineering and programming concepts interfacing with the world through analog and digital sensors communicating with a computer and other devices and internet connectivity Explains how

to combine smaller topics into more complex projects Shares downloadable materials and source code for everything covered in the book Projects compatible with many official Arduino boards including Arduino Uno Arduino Leonardo Arduino Mega 2560 Arduino Due Arduino Nano Arduino Mega ADK LilyPad Arduino and may work with Arduino compatible boards such as Freeduino and new third party certified boards such as the Intel Galileo Exploring Arduino takes you on an adventure and provides you with exclusive access to materials not found anywhere else **High-Tech DIY Projects with**

**Microcontrollers** Maggie Murphy,2014-07-15 Microcontrollers are small computers embedded in many everyday devices The average person interacts with several of them each day without even thinking about it But why have microcontrollers become so ubiquitous in what devices are they found and most importantly how does one go about making one All this and more is explained in the engaging text It will turn even the technologically illiterate into budding tech wizards **Ultimate**

**Microcontroller Projects** Don Wilcher,2013-05-15 This companion book to MakerShed's Ultimate Microcontroller Kit provides 30 clearly explained projects that you can build with this top selling kit right away including multicolor flashing lights timers tools for testing circuits sound effects motor control and sensor devices With the Ultimate Microcontroller Kit you'll find everything from common components such as resistors and capacitors to specialized sensors and actuators like force sensing resistors and motors The kit also features the Arduino UNO Microcontroller and a MakerShield the definitive prototyping shield for Arduino Build 30 cool mini Arduino projects and gadgets Work on projects that are both instructive and have practical application Get circuit diagrams and detailed instructions for building each project Understand circuit design and simulation with easy to use tools

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