Autonomous NERF Blaster

Programming Mayhem with
Processing and Arduino





Brian Huang, Derek Runberg

Build Your Own Autonomous NERF Blaster Bryce Bigger, 2013-07-06 Design and build your own robotic Arduino powered sentry blaster Break out the big daddy blaster and teach it to act on its own Build Your Own Autonomous NERF Blaster walks you through cool DIY projects such as working with motion sensors remote monitors and facial detection software all while building up to the ultimate goal a robotic NERF weapon that finds and fires on its targets Have some serious fun along the way as you learn about creative coding with Processing and Arduino Step by step instructions show you how to Construct and mount a servo NERF blaster and webcam in harmonious alignment Program Processing to receive video search it for a face and then pass instructions to your Arduino board via USB cable Configure Arduino to process the message and instruct the servo to move to a new position Specify your target radius in Processing and when met send the message to Arduino that it s time to open fire Practical Arduino Robotics Lukas Kaul, 2023-03-17 Build your hardware electronics and programming skills and use them to realize your advanced robotics projects with this powerful platform Purchase of the print or Kindle book includes a free PDF eBook Key Features Become an expert in selecting sensors motors and Arduino boards for any robotics project Discover how to write effective and reusable code for your Arduino robotics projects Learn to build a camera based line follower and a self balancing telepresence robot on your own Book DescriptionEvery robot needs a brain and the Arduino platform provides an incredibly accessible way to bring your Arduino robot to life Anyone can easily learn to build and program their own robots with Arduino for hobby and commercial uses making Arduino based robots the popular choice for school projects college courses and the rapid prototyping of industrial applications Practical Arduino Robotics is a comprehensive guide that equips you with the necessary skills and techniques that can be applied to various projects and applications from automating repetitive tasks in a laboratory to building engaging mobile robots Building on basic knowledge of programming and electronics this book teaches you how to choose the right components such as Arduino boards sensors and motors and write effective code for your robotics project including the use of advanced third party Arduino libraries and interfaces such as Analog SPI I2C PWM and UART You ll also learn different ways to command your robots wirelessly such as over Wi Fi Finally with basic to advanced project examples this book illustrates how to build exciting autonomous robots like a self balancing telepresence robot By the end of this book you ll be able to design and create your own custom robots for a wide variety of applications What you will learn Understand and use the various interfaces of an Arduino board Write the code to communicate with your sensors and motors Implement and tune methods for sensor signal processing Understand and implement state machines that control your robot Implement feedback control to create impressive robot capabilities Integrate hardware and software components into a reliable robotic system Tune debug and improve Arduino based robots systematically Who this book is for If you re excited about robotics and want to start creating your own robotics projects from the hardware up this book is for you Whether you are an experienced software developer who wants to learn how to build

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