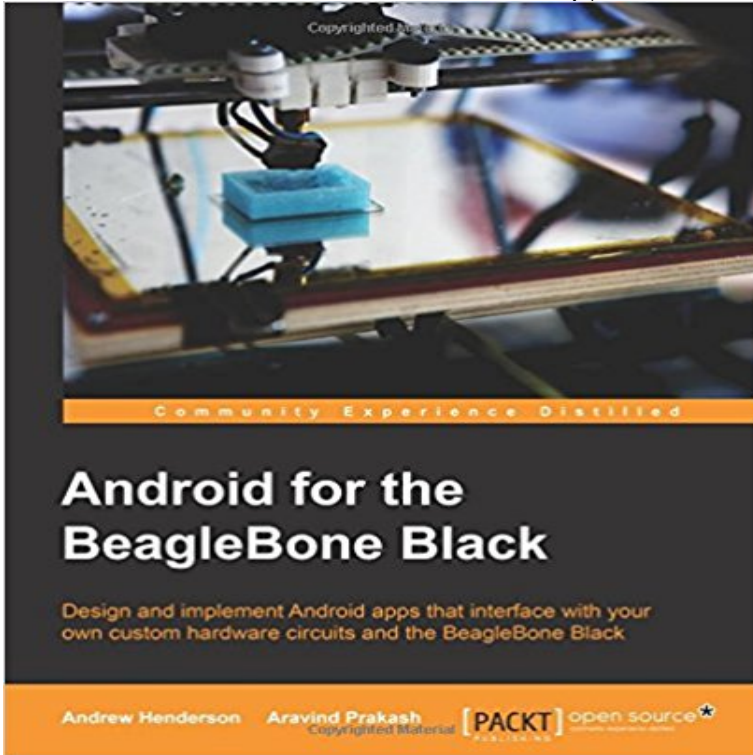


# Android Hardware Interfacing with the BeagleBone Black



implement Android apps that interface with your own custom hardware circuits and the BeagleBone Black About This Book Design custom apps that interact with the outside world via BeagleBone Black Modify Android to recognize, configure, and communicate with sensors, LEDs, memory, and more A step-by-step guide full of practical Android app examples that will help the users to create Android controlled devices that will use BeagleBone as hardware Who This Book Is For If you are an Android app developer who wants to experiment with the hardware capabilities of the BeagleBone Black platform, then this book is ideal for you. You are expected to have basic knowledge of developing Android apps but no prior hardware experience is required. What You Will Learn Install Android on your BeagleBone Black Explore the three primary hardware interfaces of the BeagleBone Black • GPIO, SPI, and I2C Construct circuits that interface the BeagleBone Black with high-speed sensors, external memory chips, and more Discover the advantages and disadvantages of using GPIO, I2C, and SPI components in your interfacing projects Modify Android to recognize and interface with your own custom and prototype hardware Develop multithreaded apps that communicate directly with custom circuitry In Detail This book explores using the Android OS on the BeagleBone Black hardware platform and provides an introduction to Androids unique approach to hardware interfacing. Youll be walked through the process of installing and configuring Android on your

BeagleBone Black, as well as preparing your PC development environment to create Android applications that directly interface with hardware devices. Several example projects within this book introduce you to using the GPIO, SPI, and I2C hardware interfaces of the BeagleBone Black. You'll create Android apps that communicate directly with actual hardware components such as sensors, memory chips, switches, and LEDs. Step-by-step guidance through both the software and hardware portions of these projects is provided. Combining all of the previous projects into a single project that uses GPIO, SPI, and I2C together, you will explore the details of creating an advanced hardware interfacing app. Finally, you'll be provided with information on transitioning prototype code into code suitable for deployment on an Android-based device. With a variety of example apps that demonstrate key hardware communication concepts, this book will help you become an Android hardware interfacing pro in no time.

Dead on Revival Main menu Skip to content Home About the Blog About the Blogger The Alphabet The List Sleep now; fear human nature tomorrow POSTED ON FEBRUARY 16, 2016 Ive had this blog for nearly a decade. Fuck. POSTED IN LIFE A Prayer POSTED ON NOVEMBER 27, 2015 You are, of course, too much I am easily tired and slow Where you run on for days without rest: The God of ultra-marathons and Bolt Who still jogs beside me on my 12-minute mile Where you work without end: The Messenger for Gods without rest or relent Who pulls me to my feet on 14 hour shifts Where you laugh without reserve: The Prankster who steals their best friends cows Who reminds me that may it harm none we all need to have fun Where you lead: The Guide today until death Who rides beside me on long sleepy nights Enagonius, Poneomenos, Mechaniotos, Diaktoros Transcendent and eternal You called to me and I fall at your feet I thank you, Lord Hermes, for your blessings and your indulgence as I find my way on your path POSTED IN LIFE TAGGED DRU TALKS GODS, HELLENIC POLYTHEIST, HERMES, POLYTHEISM, PRAYER Drunk Advice From A God POSTED ON NOVEMBER 3, 2015 2 the days are pouring nectar down my throat so thick and sweet that it makes my teeth brittle in exhalation to life and he tastes like spiced wine, in-toxicating and scalding as he elevates me the way a lift carries you as high as you ask it as high as its able He laughs: Burn Your Feet flying through inexorable hours you once spent languishing in despondence Reach out with both your hands for Death and screech your

joy when She recoils, smiling POSTED IN LIFE TAGGED DEVOTIONAL STUFF, DRU BLOGS, HERMES, MY STUFF, PERSONAL, POETRY, WRITING Eirwyn p1 POSTED ON JULY 8, 2015 Once upon a time, in a land bordered by a lush, dark wood, there ruled the kind but simple king, Gwirion. Fortunately for his kingdom his young queen, Bywyd was as sharp as he was dull. She advised him in all matters of state, and benevolently attended concerned citizens and visiting dignitaries alike, always with a graceful nod to her husband and a quiet "May it please your Majesty." So it was that they ruled in peace for many years troubled only by the lack of Ysbryd-ane an heir to carry on the divine dragon blood of Gwirions ancestors. When Bywyd found herself full with child at last she rejoiced that their kingdom would be secured, their rule assuredly peaceful for the rest of their lives. And when the child was born, with raven black hair so dark against eyes as blue as lightning and skin as pale as snow, they called her Eirwyn and raised her to understand the five aspects of the dragon that she must ever personify to rule her people. Before her sixth birthday, Eirwyn was already tired of the dusty words she had learned by rote. POSTED IN WRITING TAGGED BLOG, CAMP NANOWRIMO, FAIRY TALE, FEEDBACK PLZ?, WRITING vibrato POSTED ON JULY 8, 2015 OK. Im shaking apart inside Tremors that are too fine to be seen or felt Maybe i can hear them though? If I listen v carefully Cool. Im not really sure why. Maybe minds are meant to fall apart when theyre as delicately stitched together as mine? Ooh or Im picking at the metaphorical seams because Im just so godsdamned bored! Yas. Lets make this an intentional thing Consequences of choices are always easier to stomach Even if theyre shitty Mm. Learn to trust your audience, right? Youre all such bright young things. Your capable and endlessly receptive. Just Like me. POSTED IN WRITING TAGGED IT JUST SEEMS ARROGANT TO CAPITALISE YOUR OWN ME, NOT SORRY, POETRY, SORRY Post navigation Older posts Subscribe Enter your email address to subscribe to this blog and receive notifications of new posts by email. Join 791 other followers Enter your email address click here to subscribe There was an error retrieving images from Instagram. An attempt will be remade in a few minutes. Twitter Error: Twitter did not respond. Please wait a few minutes and refresh this page. Information This blog was founded by Dru Saxton and Lu Thatcher in February of 2007. Please click About the Blog for more information. 1, 443 posts have been published on this blog since its inception. Blog posts are regularly archived and removed. These archives are available for purchase. Please contact Dru for more information. Updated: May 4, 2012 - 22:35 CDT Tumblr Blogroll Blonde in Asia Book-Addicts Completing the List Creative Copy Challenge Dave Cafe Five Reflections Haiku and Stuff Insight To An Individual Living With Baddies Smashed Collar Bone The Bucket List The Ms Education of Shelby Knox Create a free website or blog at WordPress.com. The Forever Theme. Follow Follow "Dead on Revival" Get every new post delivered to your Inbox. Join 791 other followers Enter your email address Sign me up Build a website with WordPress.com

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