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This new textbook fills an important gap in the existing literature, in that it prepares construction engineering and

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built environment students for their first experience of the jobsite. This innovative book integrates conceptual and hands-on knowledge of project engineering to introduce students to the construction

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process and familiarize them with the procedures and activities they need to operate as project engineers during their summer internships and immediately after graduation. The textbook is structured into

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***four sections: Section A:
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B: Field Engineering Section C:
Office Engineering Section D:
Advanced Project Engineering
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case studies, questions, and***

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Civil Engineering Contracts:
Practice and Procedure, Second
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procedures used in civil engineering projects. Topics covered include types of contract in civil engineering, general conditions of contract, insurances, and tender procedures. The powers, duties,

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and functions of the engineer and his representative are also considered. This book is comprised of 14 chapters and begins with an overview of the philosophy underlying the contract system in civil

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engineering, followed by a discussion on the promotion of civil engineering works. The reader is then introduced to types of civil engineering contracts; contract risk and contract responsibility; the

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application of contract documents; and general conditions of contract. The remaining chapters focus on contract specifications; bill of quantities and methods of measurement; principles and

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types of insurance; procedures for competitive bids or tenders; cost estimates, methods of pricing, and rate fixing; and claims on civil engineering contracts. The final chapter is devoted to arbitration and related

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procedure for the settlement of contract disputes. This monograph will be useful to practicing civil engineers who are involved with contract administration and to younger engineers who are aspiring to

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***obtain professional
qualifications.***

***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***

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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

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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

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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

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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

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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

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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

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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

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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,

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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

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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

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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,

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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,

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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:

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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

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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

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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

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technical contributions by experts and professionals in this area are included. The work is the outcome of deliberations at various conferences in the area conducted by Prof. G.L. Sivakumar Babu and Dr. V.V.S. Rao as secretary and Chairman

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technology in them With many worked examples and illustrations of tools and techniques, it suits students and professionals alike involved in surveying, civil, structural and mining engineering, and related areas such as geography and mapping.

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for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will

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evaluating the performance
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