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Alan Clements, Microprocessor Systems Design, 3rd Edition, PWS Publishing Company, Boston, MA, 1992 Kim R. Fowler, Electronic Instrument Design, Oxford University Press, New York, NY 1996 LMS Course Site Course Instructor: Kyle Wilf, JEC-6004, 276-2170, wilkt2@rpi.edu

Requirements and Procedures for the Course Project

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This book covers the design of systems that use a microprocessor (the electronic TTrainUT of a computer), including both hardware and software considerations. The particular type of microprocessor discussed is Motorola's 68000 family, including the latest generation of 68000 chips. Clements' emphasis is practical, providing the necessary detail to enable students to design actual, working systems. The practical, real-world approach and examples, the text's comprehensiveness, and the author's accessible writing style have been the main reasons driving Clements' great success through two editions. A new chapter on the C programming language and its relationship to assembly language will appeal especially to instructors whose courses emphasize software aspects of systems design. A bound-in disk contains simulation software that enables students to run 68000 assembly-language code on IBM-PCs and compatibles.

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Clements has a gift for conveying highly complex, technical information in an exceptionally clear and readable manner. Clements writing style is very student oriented, and stresses the basics of 68000 ASL while also covering the latest information on ASL later generation chips.

COMPUTER ORGANIZATION AND ARCHITECTURE: THEMES AND VARIATIONS stresses the structure of the complete system (CPU, memory, buses and peripherals) and reinforces that core content with an emphasis on divergent examples. This approach to computer architecture is an effective arrangement that provides sufficient detail at the logic and organizational levels appropriate for EE/ECE departments as well as for Computer Science readers. The text goes well beyond the minimal curriculum coverage and introduces topics that are important to anyone involved with computer architecture in a way that is both thought provoking and interesting to all. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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A detailed handbook that emphasizes modular hardware design, project planning and scheduling. Filled with data sheets, diagrams nad helpful illustrations, this title is one more of a long line of bestselling Prentice-Hall 68000 family titles.

For one-semester, senior-level courses in Microprocessors, Assembly Language Programming and Microcomputer Design in departments of Electrical Engineering, Engineering Technology, Electronics Technology, and Computer Science. Designed to demystify the Motorola 68000 microprocessor its hardware and software this text leads students on an in-depth, hands-on exploration of more than 75 different applications and then guides them through the construction and programming of their own working single-board 68000 system.

Embedded Systems Architecture is a practical and technical guide to understanding the components that make up an embedded system's architecture. This book is perfect for those starting out as technical professionals such as engineers, programmers and designers of embedded systems; and also for students of computer science, computer engineering and electrical engineering. It gives a much-needed 'big picture' for recently graduated engineers grappling with understanding the design of real-world systems for the first time, and provides professionals with a systems-level picture of the key elements that can go into an embedded design, providing a firm foundation on which to build their skills. Real-world approach to the fundamentals, as well as the design and architecture process, makes this book a popular reference for the daunted or the inexperienced: if in doubt, the answer is in here! Fully updated with new coverage of FPGAs, testing, middleware and the latest programming techniques in C, plus complete source code and sample code, reference designs and tools online make this the complete package Visit the companion web site at http://booksite.elsevier.com/9780123821966/ for source code, design examples, data sheets and more A true introductory book, provides a comprehensive get up and running reference for those new to the field, and updating skills: assumes no prior knowledge beyond undergrad level electrical engineering Addresses the needs of practicing engineers, enabling it to get to the point more directly, and cover more ground. Covers hardware, software and middleware in a single volume Includes a library of design examples and design tools, plus a complete set of source code and embedded systems design tutorial materials from companion website

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