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Offered Every Fall Credit Hours: 2-3-3 Prerequisites: ME 3015 or equivalent, or with the consent of the instructor Catalog Description: Modeling and control of actuators and electro-mechanical systems. Performance and application of microprocessors and analog electronics to modern mechatronic systems. Textbooks: David G. Alciatore, Michael Histand, Michael B. Histand,

ME 6405 Introduction to Mechatronics | The George W ...

Modeling, the performance characteristics and application of microprocessors, analog and digital electronics to modern

mechatronics systems and intelligent manufacturing – particularly smart sensors, controllers and actuators. Introduction to Mechatronics, Georgia TechIntroduction to Mechatronics, Georgia Tech ME6405

ME6405 ME 6405 INTRODUCTION TO MECHATRONICS

ME6405 ME 6405 Introduction to Mechatronics Fall 2006 Instructor: Professor Charles Ume Microchip PIC. George W. Woodruff School of Mechanical Engineering, Georgia TechGeorge W. Woodruff School of Mechanical Engineering, Georgia Tech

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ME6405 Reference Text 1. Mechatronics: Electronic Control Systems in Mechanical Engineering, by W. Bolton 2. Design with Microprocessors for Mechanical Engineers by Stiffler 3. 6801, 68701, and Microcomputer Programming and Interface, by Andrew C. Stauggard 4. Design with Microcontrollers, by John B. Peatman 5.

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• Reset is used to force a microcontroller unit (MCU) to assume a set of initial conditions and to begin executing instructions from a predetermined starting address. • Like interrupts, they fetch vectors to force a new starting point for further CPU operations. Georgia Institute of Technology ME4447 / ME6405 Interrupts and Resets 24

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Lab 9 ME 6405 Page 1 ME 6405 Lab 9 Constructing and Characterizing a Thermal System Using the MSP432 and I2C Serial Communication Due Date: November 13, 2018 Objective The objective of this lab is to build a thermal system using an I2C temperature sensor, implement an open loop controller using an MCU, and characterize the step response and control sensitivity using experimental data.

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EngineeringThe George W. Woodruff School of Mechanical Engineering Data Types Data Type Size in Bytes Description void 0 nothing char 1 a single byte (signed or unsigned) int 2 one word (signed or unsigned)

Introduction to C Language

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