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Notes for Discrete-Time Control Systems (ECE-520) Fall 2010 by R. Throne The major sources for these notes are † Modern Control Systems, by Brogan, Prentice-Hall, 1991. † Discrete-Time Control Systems, by Ogata.

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Such a discrete-time control system consists of four major parts: 1 The Plant which is a continuous-time dynamic system. 2 The Analog-to-Digital Converter (ADC). 3 The Controller (μP), a microprocessor with a “ real-time ” OS. 4 The Digital-to-Analog Converter (DAC). 3 + – r(t) e(t) ADC μP DAC u(t) Plant ? ? y(t) 4

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