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Kevin Craig Associate Professor of
Mechanical Engineering Department of
Mechanical, Aerospace, and Nuclear
Engineering Rensselaer Polytechnic
Institute Troy, NY 12180 Office: JEC
3018 Phone: 518-276-6626 E-Mail:
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follow a rigorous procedure to design the mechatronic system. He must build the mechanical part of the system and choose the appropriate sensors and actuators that have to be used in the

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mechatronics Actuators are irreplaceable
constituents of mechatronic motion control
systems. Moreover, they are true
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Engineering is required to fully exploit their potential as actuators. This chapter analyzes the actuator as a device included in motion control systems.

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The sensors detect the state of the system

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parameters, inputs, and outputs. The various actuators used in the mechatronic system are pneumatic and hydraulic actuators, electro-mechanical actuators, electrical motors such as DC motors, AC motors, stepper motors, servomotors, and piezoelectric actuators.

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explore the surface of the Moon and send
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Different sensors and actuators are to be

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applied to the rover to receive useful information about the rover's exploration.

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