EXHIBIT 1065

S. HASAN, "A CCD based Image Perception Sensor for Mobile Robots,"

Final Report: U. of Florida Dept. of EE, 1006, 1995: VVL-1070 Evaluation Kit

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University of Florida

Department of Electrical Engineering

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Intelligent Machine Design Laboratory

A CCD based Image Perception Sensor for Mobile Robots

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ABSTRACT

This project investigates the feasibility of application of vision sensing devices like CCDs to mobile robots. Emphasis is laid upon the simplicity and cost effectiveness of hardware and software to implement simple image processing onboard the robot. The key issue to be explored is that 'what kind of image processing ability is required by a mobile robot'.

The concept of patch-wise correlation[1] has been explored and partially implemented on a micro-controller based system.

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