

**DESIGN AND DEVELOPMENT OF A LASER TRANSCEIVER
FOR SERIAL PORT COMMUNICATION**

**Undergraduate Design Project
Submitted to the Faculty of the
Cavite State University
Indang, Cavite**

**In partial fulfillment
of the requirements for the degree of
Bachelor of Science in Electronics and
Communications Engineering**



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*Design and development of a laser
transceiver for serial port communication
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ABSTRACT

FLORES, MAY S., and VALLEJO, PETER ARMAN N. Design and Development of a Laser Transceiver for Serial Port Communication. Undergraduate Design Project. Bachelor of Science in Electronics and Communications Engineering. Cavite State University, Indang, Cavite. April 2006. Adviser: Engr. Michael T. Costa.

The design and development of a laser transceiver for serial port communication was constructed at Brgy. Bancod, Indang, Cavite. The main objective of the study was to design two transceivers that will allow two computers to transfer data/share data from each other using an ordinary laser pointer.

The design project was composed of two transceivers capable of transmitting and receiving data. The transceiver was constructed to allow full duplex communication between two computers at different distances.

The design project was presented to the adviser and technical critic during the preliminary evaluation conducted at the hallway of the New Engineering Building on May 9, 2005.

The final evaluation of the design project took place at the hallway of the Marcos Building of the College of Education on May 10, 2005. The device underwent evaluation through pilot testing.

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