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FACULTY OF ENGINEERING AND INFORMATION
TECHNOLOGY

SCHOOL OF ENGINEERING

FINAL YEAR ENGINEERING PROJECT (2002)

FINAL REPORT

PROJECT TITLE	: PRESSURE SENSOR
ROUTE	:B. ENG. (Hons) ELECTRICAL AND ELETRONIC ENGINEERING
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Abstract

The nature of this project is to model and simulate a piezoresistive pressure sensor from sampled physical model researched from certified journals/letters written by professors and enthusiast alike. The journals are IEEE journals.

From the simulation generated, evaluation of the pressures characteristics could be studied and compared with the actual results obtained from the journals. Moreover further testing could be done, by changing certain parameters of the pressure sensor to obtain desirable characteristics that suit different environment and conditions.

By doing the simulations, certain designs could be improved thereby promoting the piezoresistive pressure sensor capability.

Figure 19 Concept of semiconductor

Figure 20 Piezoresistive effect

Figure 21