Dear Dr. Prescott:

We are submitting a multi-disciplinary engineering report titled *Design of an Artificial Hand*. The report outlines work involving team members from various engineering disciplines.

This report deals with the design of a prosthetic hand in order for it to be affordable for the amputee. Therefore, the design of the prosthetic hand should be functional and also cosmetically appealing. The report encompasses three sides of the project that are mechanical, electrical, and chemical engineering based design methods. The mechanical aspect of the design dealt with mimicking detailed joint movement of the real hand and adaptive grasping. The electrical aspect of the design dealt with the sensory functionality and the powering of the hand. Finally, the chemical engineering concern with the project was to design materials for manufacturing the prosthetic hand that is the outer and inner construction of the prosthetic. In order to carry out the design, the materials should be low in cost, light in weight, tough, and able to resist extreme conditions such external heat and pressure loads. The report recommends the analysis of cost, body implantation and power consumption of the hand.

We would like to thank Mrs. Daphne Flanagan for showing us how to research information for our project by searching online databases for engineering-specific topics. We would also like to thank Ms. Alanna Ross who showed us useful web facilities through AUS Library’s website. Moreover, we wish to acknowledge Dr. David Prescott for providing insightful feedback on all the assignments that contributed to this project. The feedback strengthened the report.

We hope that this report meets the criteria and guidelines assigned for constructing a multi-disciplinary engineering report. If you have any further questions concerning our project or report, please feel free to contact us by e-mail at: b00028075@aus.edu

Sincerely yours,

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Artificial Hand Team

Encl.: Design of an Artificial Hand Project Report