Abstract of the Project Proposal Report for the
Automatic Face-Drawing Program
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This report is a proposal to build an automatic face-drawing program. The program will draw a face when given the location of the important points of the mouth, eyes, ears and chin. The points are measured from the tip of the nose. The program is comprised of six main modules. They are the major layout, the location of the nose, the outline of the head, the mouth and smile, the ears, the eyes and the hair. The program tries various features until the user is satisfied with the picture. The program will run on a PC with a processor of at least 1.0 MHz and at least 256 MB of main memory. It requires 800 MB of disk storage. A mouse is used as the main input device and a color monitor is used as the output device. A color printer will also be used to provide a copy of the final picture.

The project will require 36 weeks to complete and will expend an estimated 515 person hours of labor at an estimated total labor cost of $20,375. The Critical Design Review will be on November 4, 2004 and the Final Design should be completed by November 25, 2004. A working prototype should be available by April 28, 2005. Estimated total cost for the prototype is $68,460. A preliminary Economic Analysis has determined that we will sell approximately 400,000 of this program at a cost to the company of $67.88 per copy, shipped on CD-ROM, including indirect costs, A & G costs, and a 20% profit. Estimated retail price for the program is $122.18. We will recuperate our prototype costs with the sale of the first 100,000 programs and we estimate a total profit of $4,480,000. To date an expenditure of $1,500 has been made to develop this proposal.