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## Adjustable Chair Lift

Gary L. Handshoe

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## ADJUSTABLE CHAIR LIFT

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### ABSTRACT

This is a proposal to design, build and test an adjustable chair lift for the handicapped and elderly. This lift will be adjustable, so that it can be mounted to a wide variety of chairs currently available. The unit will raise, and also tilt forward to allow the person to more easily get out of the chair. The chair lift will be electrically driven, and usable on 110-120v AC household outlets. The unit will be able to lift 400 pounds, and will take approximately 15 seconds to completely raise. When completely raised the chair will have a tilt angle of approximately 30 degrees. A computer program along with technical assurance is included for design of the unit, as are material and cost lists, along with a complete set of assembly drawings.

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