

Project Title:	LM-400 Menu System and Leveling Software Revision Project
Client:	Chicago Steel Tape
School Year:	2000-2001
Students:	Richard McElroy and Wesley Gerbig
Summary:	<p>The LaserMark 400 software revision project at Chicago Steel Tape pursues two simple goals. These goals alter the speed settings for the motors which control the rate at which the product self-levels, and generate a product that could be marketed overseas in an efficient manner. The revisions to the software that control the LM-400 met both goals.</p> <p>The leveling speed issue requires a modification of the effective voltage delivered to the leveling motors at various stages of the self-leveling process. These changes allow the product to level in a reasonable amount of time without a substantial amount of set point overshooting.</p> <p>The issue concerning the products marketability overseas requires the release of two new versions of software for the LM-400. The first version includes a menu that allows the user to select their choice of English, Italian, or German as the language that appears on the display during operation. The second version of software is very similar, except that the available languages for selection are English, French, and Spanish.</p> <p>All software revisions made during the duration of this project have been tested and accepted. The revisions made to the leveling motors are on the market currently. The addition of the language selection menu is being sent to product distributors at the time this document is being published.</p>