DIY DAW Controller with Teensy: Hardware Creation on a Budget

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***Abstract-***

***When using a DAW to create and perform music, professional DJ’s and artists use a variety of controllers, keyboards, and mixers to operate the software. The other choice available to musicians is to use the keyboard and mouse for interacting with the software. This way of working with the DAW loses the ‘old-school’ feeling of mixing; the actual disc jockey work of producing music. As musicians just starting out, as well as students, money is not a luxury available to help buy one of these expensive machines. Using affordable microcontrollers and parts from the Arduino line, a controller was successfully created. The approach, steps, and comparisons of other methods will be discussed.***

***Keywords-***

***Teensy; Arduino; Hardware; DAW (Digital Audio Workstation)***

I. INTRODUCTION