

HIGH LEVEL BILATERAL UPPER EXTREMITY AMPUTEE: A CASE STUDY

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ABSTRACT

The provision of an externally powered prosthesis for a high-level bilateral amputee requires careful planning and open lines of communication among all of the individuals involved in the rehabilitation effort. We will be discussing the functional abilities of a bilateral shoulder disarticulation amputee who suffered an industrial trauma approximately one year ago. Several successful innovations of the self donning and self-doffing prosthesis are shown, including the use of a single remote on/off switch powering both arms, bilateral rotators with unique control schemes, a free floating ServoPro control strap, a floating electrode assembly and an ultralight one-piece carbon fiber frame. Control was achieved using both myoelectric and ServoPro systems. Throughout the fitting process, an occupational therapist was utilized for both pre-prosthetic and post-prosthetic training.

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