

## **Abstract of the Thesis:**

Bachelor thesis addresses the practice of alternative use control of computer for people after damage in C5 spinal area. The aim is to provide an ergotherapeutic perspective on the use of alternative MyVoice and MyDictate programs in terms of work efficiency and job ergonomics.

The theoretical part deals with the issue of spinal lesions and provides information about the client's clinical picture with lesions in the C5 segment and the functional impact of the diagnosis on everyday life. Furthermore, the work focuses on the issue of employment of a person with disability in the Czech Republic. Thesis provides the possibility of occupational therapy intervention for clients after damage of spinal cord in the C5 area with respect to the ergonomics of work place. It describes the basic criteria that are discussed in this area. The conclusion of the theoretical part presents possibilities of alternative computer control for people with motor deficiency.

The practical part deals with the issue of computer control and ergonomic arrangement of work place for three clients with lesions in the C5 spinal area. For the purpose of the practical part an organization SILOU HLASU.cz was approached. The institution provides alternative computer control courses by voice. Effectiveness of work was tested with the help of two model activities. The first testing was done by using voice control programs and the second one was made by controlling computer by user himself. All due to the ergonomic layout of the workplace. Numerical evaluation of model activities was complemented by interviews and subjective opinions of clients.

The conclusion of the practical part confirms the necessity of an individual approach in the use of alternative aids and the arrangement of the work place for each client.

**Key Words:** alternative computer access, speech recognition for computers, spinal cord injury, occupational therapy, ergonomics