Exoskeleton for disabled people prototype

Introduction

Many people suffer from different injures e.g. damages of spinal cord or nerves. Due to these injures people aren’t able to walk, run and they can’t do everyday things as earlier. So, we have an idea to create modern exoskeleton which could give them the ability to stay on their own feet again.

Challenges and objectives

As mentioned before, we want to help people which lost the ability to move by their own legs. Our challenge is to create modern exoskeleton which can convert electrical impulses from the brain into the electrical signals identified by special devices. This is a market need, especially in medicinal and military fields.

Technical goals

- The technical goal is to use novel developments which can “convert” thoughts to reality in our prototype. We want to bring an opportunity to injured people to walk in exoskeleton themselves without any crutches, joysticks and so on. We’re thinking now to use special bracers to transport the converted signal to legs.

Partnership

- Now we have a humble list of potential partners. We should partner with different Research Institutes of Biomechanics, Physics, Medicine, Electronics and so on. Could be good to obtain some data in these fields of science.

Economical impact

- Finally we want to produce an exoskeleton with a possibility to move by the mental power. As we know the technology to do some things by the mental power due to novel devices exists nowadays. Our prototype is just an idea and we don't know about the cost of it production and the price of final product. This exoskeleton costs $40000. We want to produce the budget version: the similar cost but the new technology.

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Thanks for attention!