

Executive Summary



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1. Title of the Project: Smart Prosthetic Arm

2. Date of Start of the Project: 01.10.2021

3. Aims and Objectives:

Aim of the project is to enable easy use of an upper limb prosthesis involving multiple motors by making some of the motors perform autonomously in a context dependent way. To achieve this, the project will use the terminal device already designed (patent pending) by the awardee and consider simplified task scenarios to demonstrate the concept. The present device has user activated grasping with manual wrist rotation. Therefore, the primary objective of the proposed work is to support autonomous wrist rotation to enable grasping of objects presented in various orientations. Subsequently attempt will be made for autonomous movement of the elbow joint of a prosthesis.

4. Significant achievements (not more than 500 words to include List of patents, publications, prototype, deployment etc)

5. Concluding remarks