

Development of a prototype Actuation system for the continuum robotic arm

Abstract

Objective

The objective of the project is to develop a prototype actuation system for an existing continuum robotic arm at IPR.

Scope of Work

The scope includes the following:

- Development of the CAD model of a prototype Actuation system (PAS) for the continuum robotic arm as per conceptual model provided by IPR;
- Analysis and optimization of the required components for PAS;
- Physical prototyping of a single joint to demonstrate the proof of concept (PoC). The required actuation components and any other material will be provided by IPR.
- The control system exists at IPR. IPR will provide support in the integration and testing of the prototype joint.

Project Duration:

4 months

Number of Students:

2 (Max)

Eligibility: Only students of Mechanical/Mechatronics engineering branches can submit their application at following email addresses

Preference: Student should have exposure of CAD modeling and Analysis software

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