

Jernej Protner

Personal data:

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Languages:

- **Active:** English
- **Passive:** croatian (serbian), german, spanish

Education:

2015 *Bachelor's degree, University of Ljubljana, Faculty of Mechanical Engineering*

2017 *Master's degree, University of Ljubljana, Faculty of Mechanical Engineering*

Career and Professional Development/Employment:

2017- *Works at University of Ljubljana, Faculty of Mechanical Engineering as a researcher*

Elections:

2017: *Assistant, first election, Manufacturing Technologies and Systems*

Research work:

- **Simulation:** Development of advanced algorithms for automatic adaptation of simulation models to dynamic changes in production systems.
- **Industry 4.0:** Development of edge computing approaches for implementation of Plug&Produce manufacturing nodes to smart factory manufacturing and IT structure with emphasis on communication protocols, connectivity to legacy devices and digital twins.
- **Pneumatics:** position and force control of antagonistically coupled pneumatic activators that have nonlinear characteristics (pneumatic artificial muscle) with fast switching valves and advanced control techniques.

Publications:

https://bib.cobiss.net/bibliographies/si/webBiblio/bib201_20200420_103403_50842.html