|  |  |  |
| --- | --- | --- |
| sigla_UTCN | **Universitatea Tehnică din Cluj-Napoca****Facultatea de Automatică și Calculatoare**Domeniul: **Ingineria Sistemelor**Programul de studiu: **Automatică și Informatică Aplicată** | **anul universitar: 2017-2018** |

**Teme pentru proiecte de diplomă și disertație**

Cadru didactic: **Conf. dr. ing. Levente Tamas**

Contact: **Levente.Tamas@aut.utcluj.ro**

| **Nr. crt.** | **Titlul temei** | **Scurta descriere** | **Cerințe /****Cunoștințe necesare** | **Nivel (licenta/ master)** |
| --- | --- | --- | --- | --- |
| 1-2 | Connected Industrial Worker | The main aim of this project would be to use the advanced AR/VR capabilities of the Hololens and the Google Tango devices to help an industrial worker in his everyday tasks. This project is part of the on-going research with the Accenture company using the Baxter cobot. | C++ | Licenţă/Master |
| 3-4 | 3D semantic mapping | The main aim of the project is to develop a robot being able to add semantic 3D information to an indoor map. The developed would be based on existing open-source modules in cooperation with the Braintronix company. | C++ | Licenţă/Master |
| 5-6 | Bosch future mobility challenge | The main objective of the Bosch Future Mobility Challenge is to have several student teams realize the best performing model vehicle guidance system for different scenarios, which have been derived from requirements arising from a realistic environment.  | C++, electrical engineering | Licenţă/Master |
| 7-8 | Relative Pose Estimation of Objects using 3D Cameras for Active Perception | The active perception task, i.e. the ability of getting the most information from a scene is tackled in this project. More info available at:http://rocon.utcluj.ro/open-positions | C++, CV | Licenţă/Master |