**University Politehnica Timișoara**

**Faculty** Automation and Computing

**Studies program** Computing

**Project topic**

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| * Project title:   ***Door lock based of face recognition***   * Initial data for project ellaboration:   ***Programming languages: Python , MySql.***  ***Hardware: RaspberryPi, RasPi camera, SalenoidLock, RaspPi speaker***   * Project content and estimated work volume:     ***We will implement a system to trigger a door lock based on face recognition.***  ***This will contain a button that once pushed , the camera will take a photo that will be passed to the recognition phase where the face recognition algorithm will detect if the person in front of the door have or do not have acces in the respectiv area.***  ***The speaker will offer information about the respectiv output of the analysis.***  ***The application will be done around of 3 to 6 months of work and will contain approximatively 50 pages.***   * Minimal recommened bibliography:   *[1] Benjamin Perkins et al., C# 7 Programming with Visual Studio 2017, John Wiley & Sons, Inc., Indianapolis, Indiana, 2018*  *[2] Tom Dykstra, ASP.NET Web Deployment using Visual Studio, Microsoft Corporation, 2013*  *[3] Zhang, C., Fan, L., Chai, Z. et al. Smartphone and medical application use among dentists in China. BMC Med Inform Decis Mak 20, 213 (2020)*  *…*   * Submission deadline: **May 31 2021** * Other regulations (coordination, office hours, submission, examination, evaluation etc.): * **The student will present the project development once every two weeks to the coordinating professor** * **Each week 2 office hours may take place** * **The project will be handed in to the coordinator minimum 2 weeks before defence** * **The project will be evaluated by the coordinating professor** |
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| Coordinator, | Coordinator signature, |
| Prof. dr. ing. Firstname LASTNAME | Coordinator Signature |