**As. Dr. Ing. Al- Janabi Dahlia**

| Nr.crt. | Titlu lucrare | Scurta descriere | Cerinte | Nivel (licenta/master) |
|---|---|---|---|---|
| 1 | Automatic Translation from Object Enhanced Time Petri Nets to UML | Creating a tool that converts the OETPN design into UML diagrams. | Implementation using Java and OETPN framework. | **Licenta** |
| 2 | Automatic Translation from UML to Object Enhanced Time Petri Nets for Database Systems | Creating a tool that converts the UML diagrams into OETPN Design and Implementation. | Implementation using Java and OETPN framework. | **Licenta** |
| 3 | Development of Robots' Control and Monitoring System in a Warehouse Using Object Enhanced Time Petri Nets | Design and implement supervisor and control using OETPN. The user Controller works on a smart phone. | Implementation using Java and OETPN framework. The controller is implemented as an Android application. | **Licenta** |
| 4 | Development of Smart Home Remote Control and Monitoring Application Using Object Enhanced Time Petri Nets | Design and implement systems for a smart home like appliances, heating, and/or access control using OETPN. | Implementation using Java, OETPN framework, and Android application for the controller remote access. Microcontroller (Arduino or raspberry pi) | **Licenta** |
| 5 | Development Of Smart Vehicle controller using Object Enhanced Time Petri Nets | OETPN and image processing to detect the traffic signs and the spaces between cars to avoid crashing | Implementation using Java and OETPN framework, image processing, hardware: Microcontroller (Arduino or raspberry pi). | **Licenta** |
| 6 | Automatic warehouse palletizing using Object Enhanced Time Petri Nets | Create an OETPN tool for a robotic palletizer that can be used for modeling and analysis | Implementation using Java and OETPN framework. | **Licenta** |
| 7 | Object Enhanced Time Petri Nets Size and Complexity Code Estimation based on requirements Documents | Estimate the size and code of the OETPN based on the application specification. | Implementation using Java and OETPN framework. | **Licenta** |
| 8 | Code Generator Tool from | Auto generating the OETPN | Implementation using Java and OETPN | **Licenta** |

| | Requirements Documents to Object Enhanced Time Petri Nets Framework for Urban Vehicle Systems | design and implementation based on the requirements documents. | framework. | |
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| 9 | Alte teme propuse de studentii | | | **Licenta** |