



TALLINN UNIVERSITY OF
TECHNOLOGY

Mechatronics Systems Modeling and Control
-EEM0090-

Autumn 2018

Lecturer: Mart Tamre

ABB YuMi Simulation

Hakan Demir - 184673MAHM

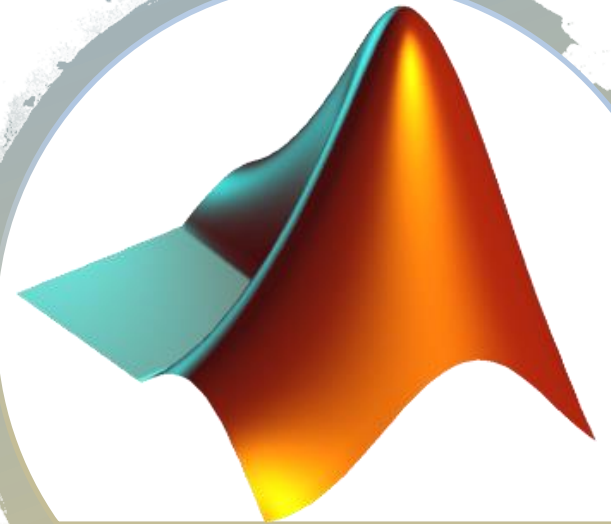
Ozan Dengiz - 184693MAHM

PROJECT DESCRIPTION

- **ABB YuMi - IRB 14000**



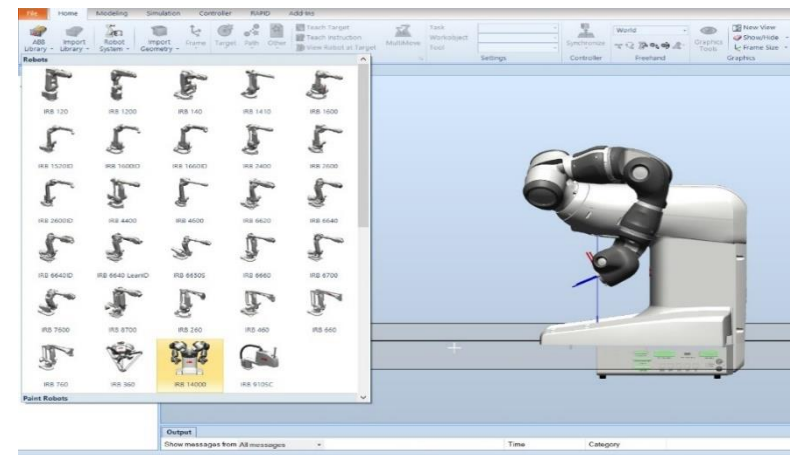
- **3D CAD (SolidWorks)**
- **Simulation (MATLAB)**



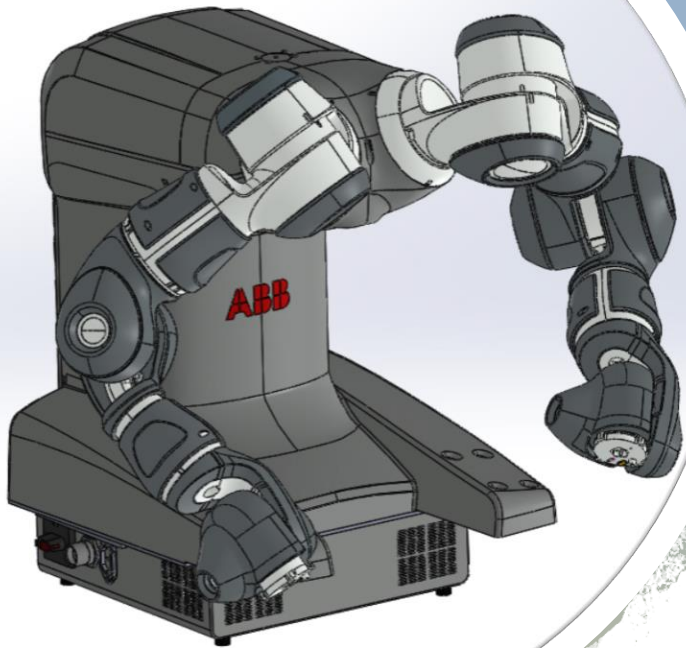
WORK DONE



- Research
- ABB RobotStudio
- 3D model in SolidWorks
- Export to Simscape Multibody
- Simulink model
- Motor block and parameters
- Simulation



3D CAD MODEL

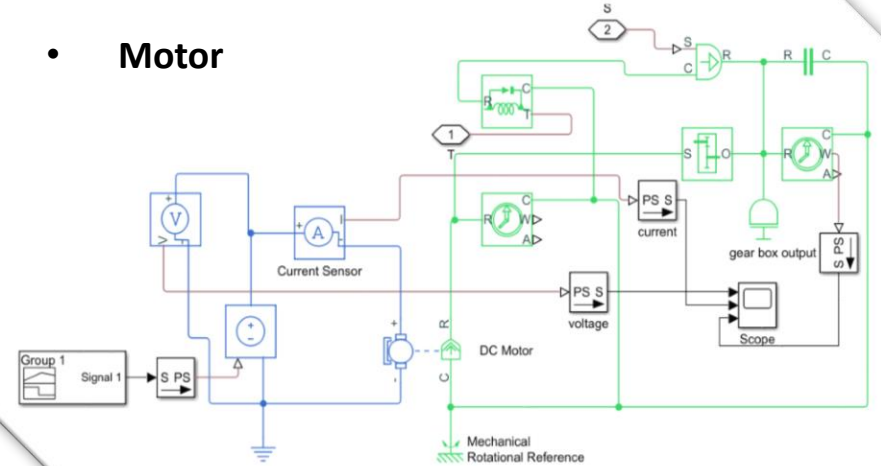


- **Research for parts**
- **Conversion of STEP files to SLDPRT**
- **Creating assembly as SLDASM**
- **Material assignment**
- **Export to Simscape Multibody**

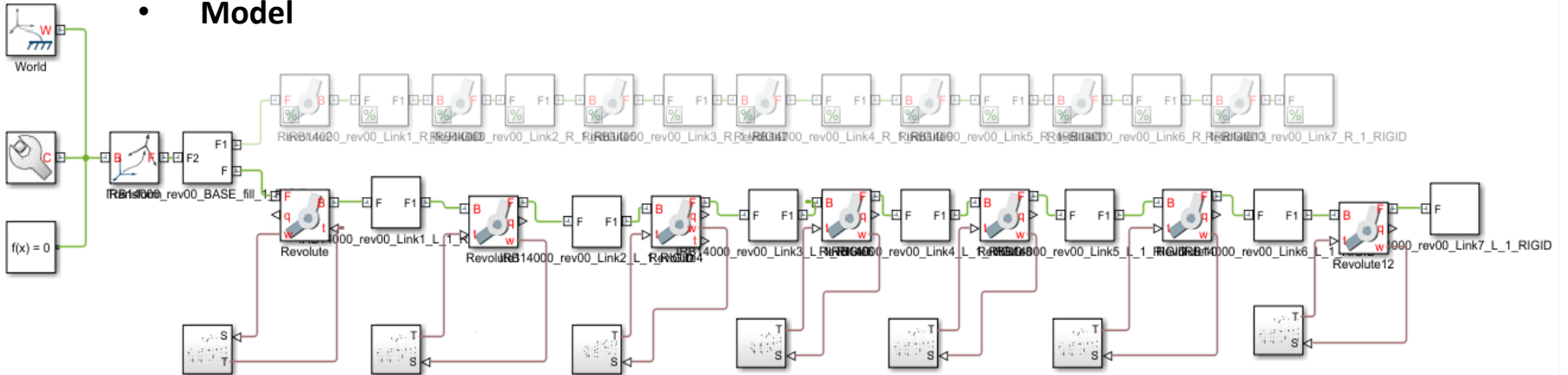
Simulation



- **Motor**



- **Model**





Conclusion

- 1 month
- 2 software
- 1 robotic arm simulation