



# B&R Control Automation and Visualization training

Tallinn (22.-24.01.2019)



## Automation Studio Control Training 1

Room: NRG-201

### Day 1

|               |  |
|---------------|--|
| 9:00 – 10:30  | <ul style="list-style-type: none"> <li>• Company presentation</li> <li>• “Integrated Automation” products presentation</li> <li>• Automation Studio installation</li> </ul>        |
| 10:45 – 12:15 | <ul style="list-style-type: none"> <li>• Explain the AS structure with the Coffee machine example</li> <li>• First project with ARsim</li> <li>• Expand on AS functions</li> </ul> |
| 13:00 – 14:30 | <ul style="list-style-type: none"> <li>• Hardware Configuration</li> <li>• Online Connection</li> </ul>  |
| 14:45 – 17:00 | <ul style="list-style-type: none"> <li>• Programming languages</li> <li>• Programming examples</li> </ul>  |

### Day 2

|               |  |
|---------------|--|
| 8:30 – 10:00  | <ul style="list-style-type: none"> <li>• Automation Runtime</li> <li>• Installation and commissioning</li> <li>• Memory management</li> <li>• Boot behavior</li> <li>• Global and local variables</li> </ul> |
| 10:15 – 12:15 | <ul style="list-style-type: none"> <li>• Cyclic program sequence</li> <li>• IO management</li> </ul>   |
| 13:00 – 14:30 | <ul style="list-style-type: none"> <li>• Collecting system information</li> <li>• Monitoring and modifying process values</li> </ul>   |
| 14:45 – 17:00 | <ul style="list-style-type: none"> <li>• Software analysis during programming</li> <li>• Making preparation for servicing</li> </ul>   |

## Automation Studio Visualization Training 1

Room: NRG-201

### Day 3

|               |   |
|---------------|---|
| 8:30 – 10:00  | <ul style="list-style-type: none"> <li>• Humane-Machine interface</li> <li>• Visual components in Automation Studio</li> <li>• Exercise with VNC viewer</li> </ul>                      |
| 10:15 – 12:15 | <ul style="list-style-type: none"> <li>• Software design</li> <li>• Project maintenance and organization</li> </ul>   |
| 13:00 – 14:30 | <ul style="list-style-type: none"> <li>• Development of Visualization Project (coffee machine based)</li> <li>• Additional exercises from ASiV basics training module</li> </ul>        |
| 14:45 – 17:00 | <ul style="list-style-type: none"> <li>• Alarm system</li> <li>• Alarm system exercise</li> <li>• Trend system</li> <li>• Trend functions</li> <li>• Complete trend exercise</li> </ul> |

### Contact:

AL SYSTEMS OÜ  
 Andrus LILLEVARIS  
 mob.: +372 5621 9731  
 e-mail: [Andrus.Lillevars@alsystems.ee](mailto:Andrus.Lillevars@alsystems.ee)  
[www.alsystems.ee](http://www.alsystems.ee)



ELEKTROENERGEETIKA JA MEHHATROONIKA INSTITUUT  
 Mart TAMRE  
 mob.: +372 512 0982  
 e-mail: [mart.tamre@taltech.ee](mailto:mart.tamre@taltech.ee)  
[mechatronics.ttu.ee](http://mechatronics.ttu.ee)

