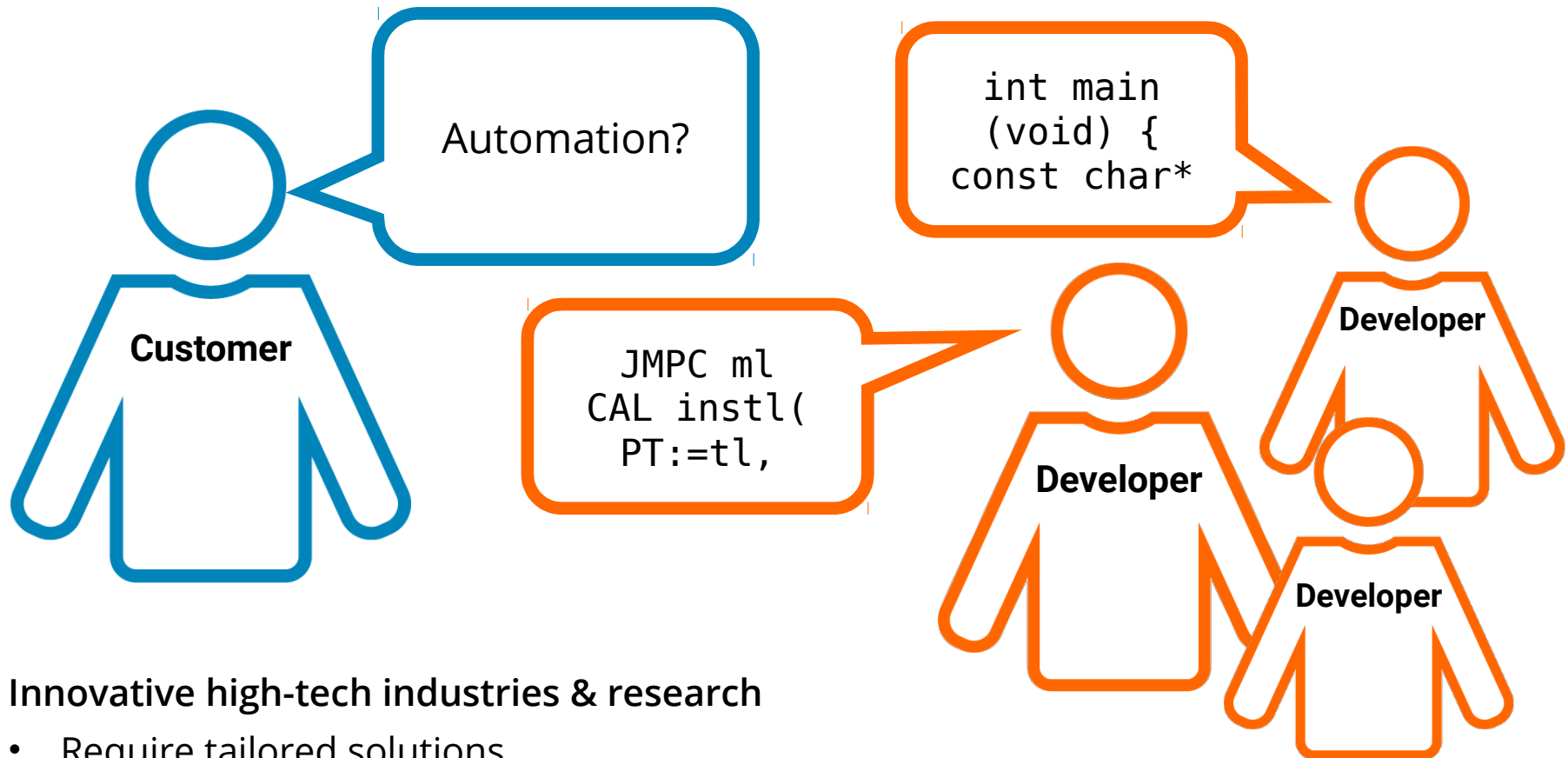




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Innovative high-tech industries & research

- Require tailored solutions
- Have unique application-know-how
- No off-the-shelf solutions available on the market

Customer-specific software solutions

- Demand a lot of time and staff
- High development/operational costs
- Customers and developers speak "different languages"



A software platform for process automation, control, data acquisition and monitoring.

Enables customers from industry and research to realize tailored Industry 4.0 solutions independently and with minimal investment of time and personnel.

Control & Automation

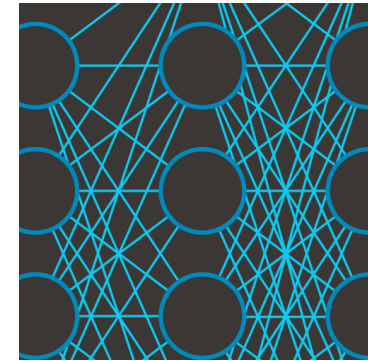
```

21 if (($horizontal_off
22     result = (
23 }
24 if (IO3.In18 == 1) {
25     set(IO2.Out4, 0)
26     wait(0.5s)
27     # Go to start pos.
28     set(Stage.MvAbs, 1
29     writeLog("Stage In
30 }
    
```

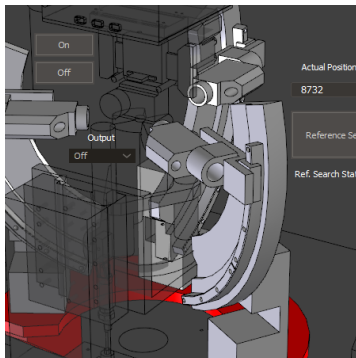
Engineering



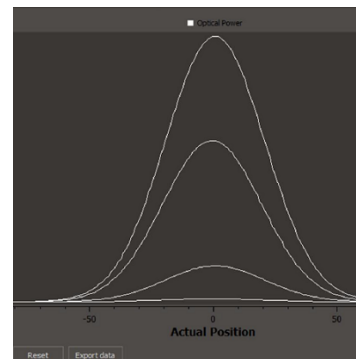
Machine Learning



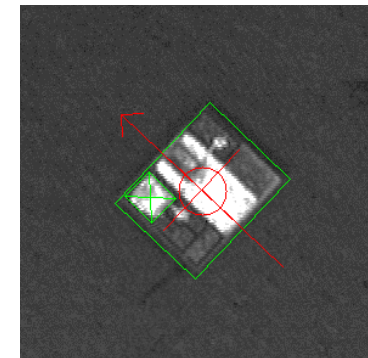
HMI & Visualization



DAQ



Machine Vision

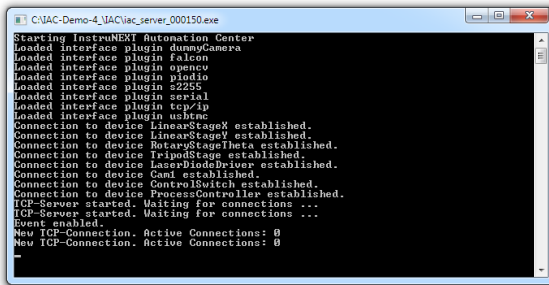


... fully integrated in a single platform!

Engineering level

Device level

Server/Node Application

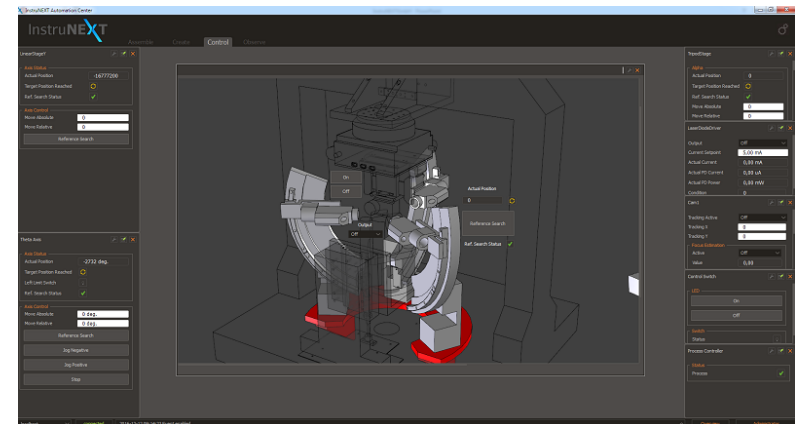


```
C:\NAC-Demo-4_VAC\vac_server_000150.exe
Starting InstruNEXt Automation Center
Loaded interface plugin dummyCamera
Loaded interface plugin falcon
Loaded interface plugin opencv
Loaded interface plugin pindio
Loaded interface plugin z2255
Loaded interface plugin serial
Loaded interface plugin tcp/ip
Loaded interface plugin usbtnc
Connection to device LinearStageX established.
Connection to device LinearStageY established.
Connection to device RotaryStageTheta established.
Connection to device TripodStage established.
Connection to device LaserModuleDriver established.
Connection to device Cam1 established.
Connection to device ControlSwitch established.
Connection to device ProcessController established.
ICP-Server started. Waiting for connections ...
ICP-Server started. Waiting for connections ...
Event enabled.
New ICP-Connection. Active Connections: 0
New ICP-Connection. Active Connections: 0
```

Windows/Linux IPC,
embedded system, ...

TCP/IP

Client Application (Visualization, HMI)



Windows/Linux PC, mobile device, ...

We are now ready for the embedded world!

InstruNEXT Automation Center runs on

✓ Windows ✓ Linux

✓ Desktop PC

✓ Industrial PC

✓ Mobile device

✓ x86/x64

✓ ARM

- Internet of Things
- Embedded devices
- Smart Sensors
- Cyber-physical systems

PoC established!

One platform – limitless applications!

- ✓ Ease of use
- ✓ Networking
- ✓ Scalability
- ✓ Adaptability

Delivery state



Individual solution realized by our customer

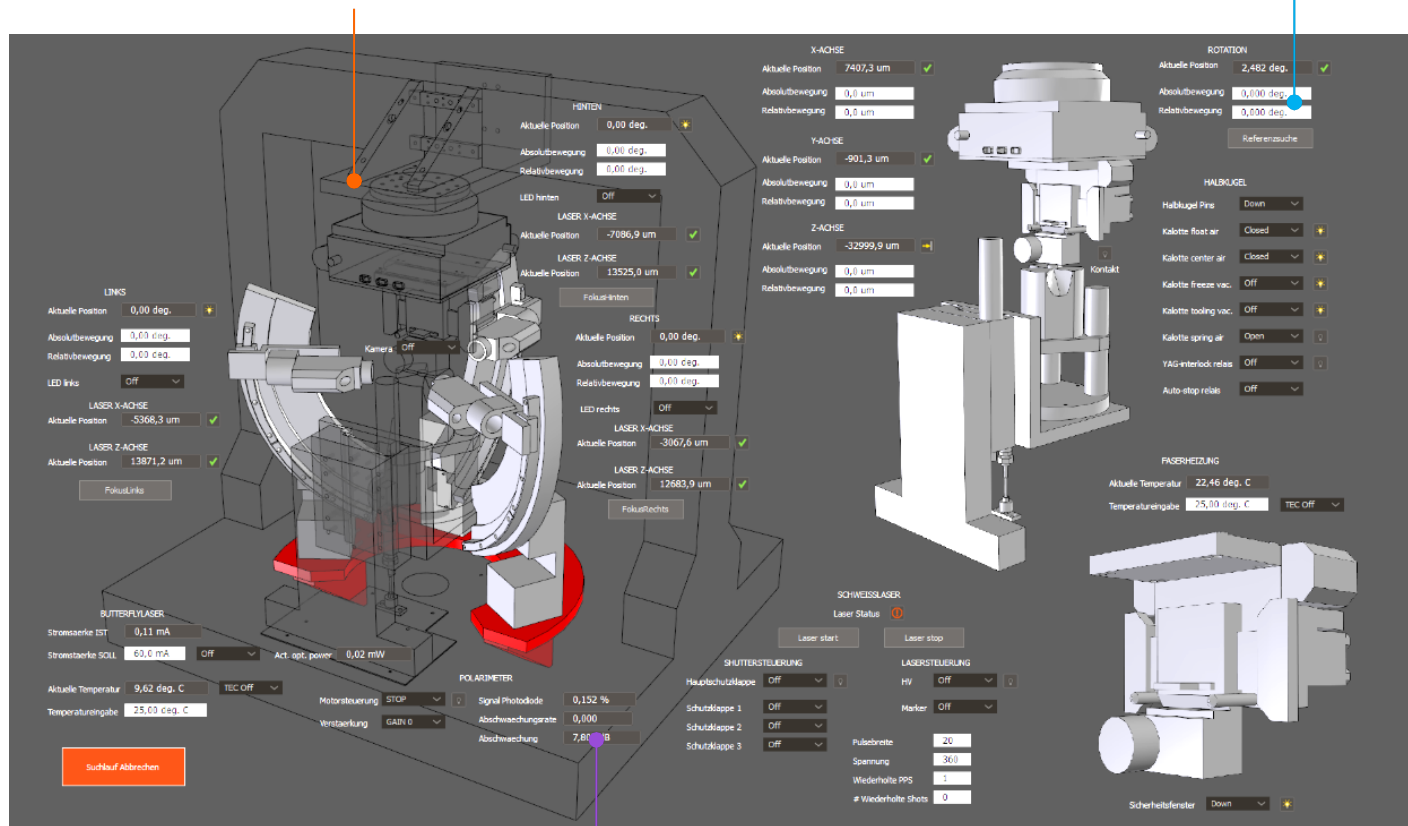
The screenshot shows the InstruNEXT software interface with several components labeled by colored lines:

- Powerful script language:** Points to the 'Create' button in the top navigation bar.
- Machine vision:** Points to the 'View' section containing three camera feeds (LeftCAM, RearCAM, RightCAM).
- User-defined device widgets:** Points to the 'MyachLWS1' widget on the right side of the interface.
- XML-based custom instrument drivers:** Points to the 'StageX' and 'StageY' widgets in the bottom center.
- Database connectivity:** Points to the 'System status' section at the bottom left, showing a 'connected' status.
- Data logging and visualization:** Points to the 'Laser Current' graph in the bottom center, which shows a plot of current (mA) over time (s).
- User management:** Points to the 'Administrator' dropdown menu at the bottom right.
- TCP/IP-based remote UI architecture:** Points to the 'System status' section at the bottom left, showing a 'connected' status.

Tailored due to unique end user (operator) know-how

User-defined graphics

Freely customizable controls



Monitoring

Exciting and varied projects in fields like

- ✓ Software Development
- ✓ Machine Vision
- ✓ Data Analysis
- ✓ Machine Learning

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