

# Industrial Automation Taxonomy Example



## 3D Printing

### 3D Printing Techniques

- Digital Light Processing (DLP)
- Electron Beam Melting (EBM)
- Fused deposition
- Hybrid (additive and subtractive)
- Laser melting
- Laser sintering
- Stereolithography

### 3D Printing materials

### Cleaning of 3D Printing nozzles

### Soware and Scanning

- 3D Scanning
- Modelling soware



## Control Systems and connectivity

### Asset Tracking/Inventory

### Control Systems

### Cybersecurity

### Predictive Maintenance

### Time Sensitive Networking

### Visualisations and analytics



## Digital Factory

### AI/ML

### Augmented Reality

### Digital Twin

### Digital Yard

### Virtual Manufacturing

### Warehouse management system



## Motors and Drives

### Bearings

- Anti-friction bearings
- Plain Bearings

### Drives

- Belt and chain drives
- Electrical Drives
- Frequency Converters
- Variable Speed Drives

### Gears and Transmission

- Clutches and couplings
- Geared Motors
- Gears and components

### Motors

- Brake Motors
- DC Motors
- Linear Motor
- Permanent magnet motor
- Servomotors
- Spindle Motors
- Three Phase (AC)
- Traction



## Robotics

### Collaborative Robotics

### Controllers

# Industrial Automation Taxonomy Example (cont.)

- End of arm tooling (EOAT)
- Human Machine Interface (HMI)
- ML/Learning Robots
- Mobil robotics
- Production systems
- Robot Arms
- Robot Drives
- Robotic Navigation
- Sensor Fusion
- Swarming



## Sensor Technology

- Acoustic
- Chemical and biological
- Climatic
- Electrical
- Flow
- Geometrical
- Lidar
- Mechanical
- Motion and Position
- Optical
- Photoelectric
- Radar
- Thermal