Motor Drive, Computer Numerical Control (CNC)

Technology Trend
- Higher speed, higher precision, more axes
- AI for adaptive control and self-diagnosis
- Flexibility, for tool reconfiguration and manufacturing-on-demand

Why Intel® FPGA?
- Deterministic, multi-axis control
- Industrial network protocols (TSN, Industrial Ethernet, field bus, encoders, ...) 
- Safety Certified SKUs: Functional Safety Data Pack 
- Industrial environment; including 3.3V I/O for harsh electromagnetic conditions
- Long Product lifecycles and high reliability

Intel® FPGA Value and Ecosystem
- Safe Drive on Chip reference design from Intel
- Drive on a Chip: Deterministic low latency (μSec) motor control reference design from Intel
- FSDP (Functional Safety Data Pack): IEC61508 certified devices, Tools, and IP from Intel
- NewTec for FuSa partner
- TSN, Industrial Ethernet, and ExpEther solutions for networking