



**UNSW**  
SYDNEY

# Computer Numerical Control for Embedded Energy Systems

**Expertise in embedded system design for various systems, including computer numerical control (CNC) systems, wireless sensor networks, and high performance, low energy embedded systems.**

## Competitive advantage

Expertise in:

- Lifetime-aware wireless sensor networks
- Secure wireless sensor networks
- High performance CNC systems
- High performance, low energy, fully predictable embedded systems

## Impact

- Embedded systems with better performance and greater security

## Successful applications

- Aerospace I CNC system—core technology for founding Wuhan Huazhong Numerical Control Co Ltd (HNC), one of the world's leading CNC providers
- Lifetime-aware data collection in wireless sensor networks
- Secure data collection and distribution in wireless sensor networks
- Energy-aware task scheduling on MPSoC-based embedded systems
- Optimizing compilers for clustered VILW processor-based embedded systems
- Integrating cache locking and task scheduling for fully predictable embedded systems

## Our partners

- Wuhan Huazhong Numerical Control Co Ltd

## More Information

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