

Philip Coen

Operations and Technical Leadership

Hillsboro, Oregon | 971 727 5248 | philipcoenjobs@gmail.com | philipcoen.net

Professional Summary

Operations and technical leader with 15 years at Intel and a foundation in U.S. Navy nuclear operations. Combines advanced troubleshooting, production delivery, and team development to turn complex priorities into executable plans, remove constraints, and build independent team capability.

Professional Experience

Production Shift Manager

Intel | Oregon Wafer Level Assembly

2024-Present

Lead night-shift execution in a 24/7 advanced-packaging operation, coordinating production, engineering, planning, quality, IT, and partner teams.

- Met shift output commitments for **10+ consecutive quarters** across high-volume manufacturing and engineering by aligning priorities, work in process, and corrective actions.
- Reduced one movement step within a production module from **roughly 9 minutes to under 4** by advancing automated transfers with engineering and operations.
- Coordinate three commitment streams on shared resources: high-volume manufacturing, engineering readiness for volume, and technology development. Align customer and operating contacts, staffing, dispatch, and escalation paths within one executable plan.
- Adapt shift plans as delivery nears, moving from whole-line assessment to product-specific recovery and appropriate escalation while maintaining safety, quality, and qualification requirements.
- Turned automation reports into equipment-level action lists, making delivery failures, owners, and support needs visible through shift handoffs.
- Apply flow rates, feedback loops, and capacity analysis to factory media flow. Support task-force improvements in material availability and movement from storage to equipment.

Engineering Module Manager

Intel | D1D Wafer Fab Diffusion

2019-2024

Led a multidisciplinary engineering team supporting vertical diffusion furnaces, equipment reliability, and process stability.

- Built **24/7 engineering coverage** from the ground up, defining roles, escalation paths, qualifications, cross-training, and train-the-trainer ownership across shifts.
- Balanced production, preventive maintenance, qualification, and experiments; established work boundaries and readiness checks before equipment returned to service.
- Connected hardware, software, controls, and process evidence to isolate faults and guide recovery. Incorporated lessons into maintenance practices and team training.
- Developed collaborative training with specialists and operations managers to build shared understanding and independent execution.

Earlier Experience

Shift Lead Technician and Equipment Technician

Intel | D1D Wafer Fab

2014-2019

- Directed night-shift technicians when no manager was on site, setting production and equipment priorities, managing escalations, and reporting shift performance.
- Aligned work in process, tool availability, and technician qualifications. Coached technicians and expanded qualification coverage to strengthen handoffs and equipment recovery.

Process Control Manufacturing Technician and Equipment Technician

Intel | Fab 11X

2011-2014

- Performed statistical process control, equipment troubleshooting, and preventive maintenance in high-volume manufacturing; coordinated across shifts to maintain process discipline.

Nuclear Electronics Technician

U.S. Navy | USS Hawaii SSN-776

2005-2010

- Supported reactor controls, instrumentation, and watch-team readiness on USS Hawaii's original crew. Helped commission the submarine from shipyard to sea through testing, documentation, calibration, and controlled work.
- Managed an approximately **\$1 million repair budget** and held calibration-control responsibility. Supported a roughly **\$3,000 component solution** instead of replacing a **\$50,000 system**.
- Applied nuclear technical training, advanced maintenance courses, schematics, and hardware and software diagnosis to troubleshooting. Carried this technical foundation into subsequent equipment and operations leadership roles.

Leadership and Technical Strengths

Resource prioritization | Workflow and capacity management | Customer delivery | Continuous improvement | Structured troubleshooting | Equipment reliability | Cross-functional coordination | Collaborative team development

Education and Technical Training

Associate of Science in Engineering Transfer | Portland Community College, Oregon

U.S. Navy nuclear technical training and Electronics Technician Maintenance School graduate. Additional engineering coursework at Central New Mexico Community College.

Leadership Portfolio

Cases and selected contributions

Selected leadership contributions, technical problem solving, and the operating philosophy behind my work.

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