

RESUME

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42 Years Experience in Mechanical Engineering Technology and Thermal Energy Analysis

Including

- Steam plant layout and design. Industrial. Commercial. Residential.
- Project management. Estimating, inside, outside sales and procurement.
- Boiler room safety checks, performance analysis, efficiency, trap audits and reporting.
- Apply and size boilers for food processors, hospitals, schools, and wood product industries.
- Design state-of-the-art, multi-temperature, multi-zone hydronic heating systems incorporating PID logic controllers.
- Design ground source water to water heat pump geothermal radiant systems.

Instructor Experience

- Instructor for the State of Oregon boiler licensing continuing education program. 10+ years.
- Offer live and online continuing education. Steam safety. Hydronics. NBIC and ASME Code.
- Built nine web-based 8-hour PowerPoint presentations with test questions.
- Provide radiant heating workshops and training for engineers, inspectors, end users, suppliers, and product representatives.
- American Red Cross instructor. (Certify instructors to teach emergency first aid).

Education and Licenses

- State of Oregon Boiler Class Three License.
- Associates Degree in Mechanical Engineering Technology PCC Sylvania. (1982)
- Associates Degree in Theology. Portland Bible College. (1984)
- Business Management (37 Hours) PCC and Mount Hood Community College.
- USAF. Fire Protection Specialist. (240 Hours) (1972)
- USAF Command Aircraft Arresting System Analysis. (1972)
- Energy Trust Solar Certification. Tekmar Control Systems. (50 Hours)

Work References

- Radiant Realities. Self-Employment. (November 27, 2006, to Present) Educator. Consultant.
- Radiant Pro. (2008 to 2012) General Manager. Hydronic System Designer.
- Keller Supply Company (1999 to 2008) Inside Sales. Plumbing Pipe and Fittings.
- Detemple Company Inc. (1995 to 1999) Project Manager. Designer. Estimator.
- Northwest Thermal Systems. (1992 to 1995) Project Manager. Boiler Sales.
- Boilertronics & Key Research. Self-Employment. (1988 to 1992) Consulting. Reporting.
- Turco Engineering. 1984 to 1988) Project Manager. Cleaver-Brooks Representative.
- Crow Engineering. (1980 to 1984) Material Handling Equipment Designer.
- US National Bank. (1976 to 1980) Business Forms Designer. Communication Liaison.
- USAF United States AirForce. (1972 to 1976) Honorable Discharge. E4 Sergeant. Crew Chief. Alarm Room 911 Residential and Flight Line Emergency Dispatch Controller.

Computer Skills: Microsoft Office. Word. Excel. PowerPoint. Outlook. Apple. Google. Zoom.
TurboCAD Deluxe. AutoCAD LT. WP Bold Grid Web Design.