

RYAN KAPLAN, EIT, MBA

CONTACT

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1444 Rohnerville Rd, Fortuna, CA 95540

CAREER OBJECTIVE

Provide engineering analysis, design services, and policy insight in the domains of energy, utilities, land development, water resources & infrastructure

CERTIFICATION

Engineer-in-Training
NCEES ID: 14-588-15
www.account.ncees.org/rn/1458815-660286-d717c9a

WORK BACKGROUND

Project Engineer WHITCHURCH ENGINEERING (2021-2022)

- Develop site plans (prescriptive and as-built)
- Produce topographic surveys (survey, processing, post-processing)
- Create grading plans (prescriptive, retroactive, and stabilization)
- Design Low Impact Development and Stormwater Plans
- Revise mechanical and electrical plans
- Design/model architectural lighting and write specifications
- Soil Reports and Site Septic Design/Reports
- Produce bid documents
- Conduct quantity takeoffs
- Analyze building lateral forces (seismic and wind loading)
- ACI Concrete Field Testing Technician, Grade 1 (ID# 02175956)
- Field test building structural elements (high strength bolts, epoxy)

Assistant Engineer RIESER BUILDING GROUP (2020)

- Support forensics and legal cases related to civil engineering standards
- Analyze design failure cases with respect to building code violations
- Inspect and summarize ADA compliance issues in built structures
- Estimate repair work orders to satisfy relevant code
- Analyze compliance issues with respect to municipal codes
- Determine road compliance issues with CAMUTCD and CalDOT standard

Instructor CABRILLO COLLEGE (2020-2021)

- Teach Environmental Science 15: Energy for a Sustainable Future (Lecture and Lab)
- Develop new curriculum to convey complex technology topics to entry level science class
- Adapt course materials to online format due to Covid-19 (record, edit video lectures)

Designer/Drafter SMW ENGINEERING GROUP (2018-2019)

- Evaluate, assess, revise plan sets with client input, best practices, guidelines, laws and ordinances
- Develop project site and road grading design & calculations from in-house survey data
- Improve efficient workflow using AutoCAD and Carlson for design and drafting
- Use in-house IT system for design iteration and documentation
- Coordinate with Department of Transportation as necessary
- Implement best practices for stormwater mitigation

Energy Analyst/Consultant REDWOOD ENERGY (2017-2022)

- Manage building energy efficiency projects involving fieldwork, research, data analysis, design, reports
- Develop heat pump water heater storage analysis (carbon, cost, efficiency) w/ CBECC-Res + CSE
- Perform education for electrification, decarbonization, reach codes, energy efficiency programs
- Support low impact development multifamily zero-net energy/carbon programs
- Manage E-commerce and multimedia content supporting biannual ZNE conference/retreat
- Conduct business marketing research for new project pursuits

Environmental Scientist TRANSCON ENVIRONMENTAL (2017-2018)

- Analyze underground chemical hazards with respect to client projects involving ground penetration
- Interpret engineering & utility plan sets and maps, phase I/II environmental site assessment reports
- Analyze chemical fate/transport and pathways/remediation of specific contaminants
- Verify and analyze water and soil contamination data in Geotracker
- Analyze and produce technical reports for client environmental review
- Oversee, coordinate, review colleague reports
- Uphold project criteria and procedural guidelines

ACADEMIC BACKGROUND

Master's Degree in Business Administration in Strategic Sustainability, 2016

HUMBOLDT STATE UNIVERSITY

- CSU Program for Education and Research in Biotechnology Innovation Corps (CSUPERB I-Corps):
Entrepreneurial Lead for Humboldt team (Remediation and industrial applications for microbial sorption of heavy metals)
- Research thesis evaluated upcycling applications of aluminum bauxite mine tailing waste at global Alcoa legacy mine operations

Bachelor of Science in Environmental Resources Engineering, 2015

HUMBOLDT STATE UNIVERSITY

- Developed math and software model of photobioreactor in Humboldt Bay, using data inputs from wastewater treatment plant nutrients in discharge, flue gas from power plant, and solar radiation data
- Wrote best practices guide for landfill bioreactors
- Research and initial design for potable water reuse system to augment Santa Cruz wastewater treatment plant Capstone design project:
- Solar array sizing and alternatives analysis for McKinleyville Community Services District (presented findings to board)
- Engineering Society Memberships: ASCE, ERESA, EWB, RESU, SWE
- ASCE Mid-Pacific Student Conference Water Treatment competition

AA Social Science and Humanities & AS Web media & CSU General Breadth, 2011

CABRILLO COLLEGE

- Winner, Rosmarie Greiner Peace Activism Award Representative
- Constituents:
 - Student Senator & Legislative Representative
 - State Student Senate (SSCCC) Regional Representative & Executive Sustainability Officer Student Senate
 - Outstanding Student Leadership Award
- Fellow, Young People For (YP4) (National Social Entrepreneurship Fellowship) Founding president,
- Cabrillo College Bicycle Cooperative
- Sustainability Club founding president
- Earth Week organizer/program coordinator

SOFT SKILLS:

I have been immersed in both public policy and private enterprise. I have significant experience in business roles working directly in a client facing role, and doing research, product and marketing work to drive sales. My public policy pursuits have shaped a keen awareness of process, relationship building, and how to find consensus among stakeholders with sometimes competing interests.

Nearly all of my jobs and volunteer roles have involved both collaboration and leadership. I am just as comfortable in a leadership or supportive role, for the desired outcome is the same, and the ingredients are similar: communication, responsibility, accountability and positive attitude. Leadership and work experience have honed my active listening skills, mediation skills, and provided opportunities for public speaking and presentations.

I have a portfolio of creative, business, public policy and technical writing examples in multiple media formats available upon request, some of which are linked from my CV. My work and academics have involved various research modes that require breadth, depth, agility and responsiveness.

TECHNICAL SKILLS:

As an engineer and designer, I have worked with every operating system environment with multitudes of softwares and deliverable formats. As a developer and programmer I have produced projects both for the end user and for specific solution purposes. I am flexible and adaptive to new client demands, work environments, procedures or criteria, and competing deadlines.

SPECIAL NOTES

- 1st Place, Humboldt Startup Weekend, 2017
- Candidate for Arcata City Council, 2014

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PROFESSIONAL REFERENCES

Jake May PE, Project Engineer

WHITCHURCH ENGINEERING INC.

610 9th St. Fortuna, CA 95540
(707) 725-6596 | jtm@wei-eng.com | Whitchurchengineering.com

Karen Groppi PE, Environmental Sustainability Specialist

CABRILLO COLLEGE

6500 Soquel Dr. Aptos, CA 95003
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Mark Rieser PE, President

RIESER BUILDING GROUP

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Dan Brislin, Project Manager

SMW ENGINEERING GROUP, INC

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Tim Kukuk, Environmental Scientist & Project Supervisor

TRANSCON ENVIRONMENTAL, INC.

528 Washington St, Ferndale, CA 95538
(707)786-6504 | TKukuk@Transcon.com | Transcon.com

Sean Armstrong, Managing Partner

REDWOOD ENERGY

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TallChief Comet, Director of Sustainability

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