

Andy Napier

Engineering Project Manager

andy@projexconsultants.com

www.projexconsultants.com

<https://www.linkedin.com/in/andy-napier/>



208-860-0784 | Boise, ID 83709

SUMMARY

Experienced in designing and managing small to multimillion dollar capital projects through estimating, design, construction, startup, and commissioning. Expertise in project management, scheduling, estimating, budget forecasting, construction, and installation. Expertise in designing, analyzing, and simulation of mechanical equipment and structural platforms for potato processing and other facilities. Ethical, reliable, and detail orientated with a strong work ethic and mechanical background, mechanical and structural design experience, and knowledgeable in process layouts.

HIGHLIGHTED SKILLS

- SolidWorks, SolidWorks Simulation (FEA)
- AutoCAD, Draftsight
- Timberline Estimating Software
- Microsoft Office Suite, MS365
- Microsoft Project
- Computer Guidance Corporation (CGC) Accounting Software
- Microsoft Excel and Visual Basic for Applications
- Microsoft Teams
- Engineering Creative Design

EXPERIENCE

2/2025-Present **Engineering Project Manager, Projex Consultants / Heyburn, ID**

- Senior mechanical designer for process design, systems layouts, machine design, and structural components
- Manage the development and execution of capital engineering projects.
- Assist with process optimization programs.

11/2017 – 1/2025 **Project Engineer, IESM / Nampa, ID**

- Finite Element Analysis (SolidWorks Simulation) of structural platforms and mechanical assemblies.
 - Engineering of tanks, vessels, conveyors, drive systems, heat exchangers, and other mechanical and structural components.
 - Evaluation of purchased components for incorporation into equipment design to provide cost-effective, sustainable, and reliable equipment designs.
 - Design coordination, planning, and submittals with project manager, clients, vendors, and subcontractors.
- Onsite engineering and analysis of existing and proposed systems to develop solutions for project opportunities.

5/2005 - 11/2017 **Project Manager/Sr. Design Engineer, Bratney Company / Boise, ID**

- Designed and evaluated mechanical systems for efficiency and performance, resulting in reduced raw material, labor, and purchased components.
- Finite Element Analysis (SolidWorks Simulation) of surge bins, conveyor components, equipment supports, and box/tote dumpers.

- Managed all safety and design on projects through development of the safety culture while ensuring the project was within Federal, State, Local and OSHA guidelines and regulations.
- Direct management of up to 20 project personnel including engineers, designers, site contractors and internal field crews.
- Provided onsite engineering solutions during construction to quickly facilitate productivity and quality.
- Planning, organizing, and management of all construction and project activities for design-build projects, design-procure projects, and design-build-specification projects.
- Negotiated and coordinated with clients, vendors and subcontractors on projects and products to create the overall system, design, and installation along with internal field crews to construct multiple projects.
- Developed partnerships with clients, subcontractors, and internal departments.
- Performed cost analysis for projects of up to \$30MM to help client determine feasibility using conceptual drawings and construction documents.
- Generated building permit documents and procurement of building permits.
- Produced various construction documents such as client billings, change orders (client & subcontractor), budget set-up from estimate, budget tracking, budget forecasting, project scheduling, delivery scheduling, and generate technical scope documents.

6/2004 - 5/2005

Production Supervisor, ConAgra Foods/ Twin Falls, ID

- Monitor and maintain product quality through frequent lab checks and quality standards.
- Adjust processing equipment to maintain superior quality and meet customer expectations.
- Prepare processing lines and employees for product changes, startup, and cleanup.
- Follow USDA good manufacturing practices, sanitation, and safety guidelines.
- Assist the engineering department with evaluatiNG of proposed projects.

1992 - 2004

Various Employes, Idaho

- Preventive maintenance program and performed routine maintenance of food processing equipment.
- Troubleshoot and repaired processing equipment as needed during production
- Designed, fabricated, and welded various components of various machinery.
- Serviced, maintained, repaired, and rebuilt all types of trucks and trailers.
- Manufactured & rebuilt locomotives, welding structural components of locomotives.

EDUCATION

Professional Engineer (Idaho Board of Professional Engineers and Land Surveyors)

Bachelor of Science, Mechanical Engineering
Boise State University, Boise, Idaho

ACTIVITIES

Rafting, kayaking, travel, camping, outdoor recreation, gardening