DOUGLAS S. PRAIRIE, P.E.

4413 S River Oaks Cir • Sioux Falls, SD 57105 • (605) 310-8802 • douglasprairie@yahoo.com

PROFESSIONAL ENGINEER

Registered under number 13315 in the State of Idaho

MISSION STATEMENT

Provide innovative business and product development solutions

SKILLS SUMMARY

• Sales Management	• Product Management	• Engineering Management
• Contract Negotiations	• Business Development	• Design for Manufacturing
• Precision Agriculture	• P&ID Development	• Fluid Power Systems
• Project Management	• Data Acquisition	• Stress & Failure Analysis
• Product Development	• Intellectual Property	• Feasibility Cost Studies
• Machine Design	• Biofuels	• GD&T
• Lean Manufacturing	• Industrial Equipment	• Engine Emission Regs
• Supplier Relationships	• Agricultural Equipment	• Off-Highway Equipment

EXPERIENCE

South Dakota State University, Brookings, SD; www.sdstate.edu; *August 2016 to present*
Lecturer for Agriculture and Biosystems Engineering Department

- Ag Power and Machinery, Fluid Power Systems, Instrumentation and Controls, ABE Senior Design
- Advisor for International Quarter Scale tractor club that has placed top 3 overall over the last 6 years.

Prairie West LLC, Sioux Falls, SD; *March 2010 to present;* Boise, ID; *Dec 2007 to March 2010*
Freelance Agriculture, Mechanical and Industrial Design Engineer

- Expert legal witness for Deere vs AGCO planter patent infringement case
- CAD 2D to 3D conversion project of industrial grain handling equipment. Project involved the architecture of multiple complex part and assembly configuration structures within SolidWorks.
- Structural design and stress analysis of a mobile hydraulic car crushing system

POET Research, Sioux Falls, SD www.poet.com; *June 2015 to June 2016*
Mechanical Research Manager for POET's Research and Innovation Group

- POET Research was responsible for the development and support of novel technologies related to corn ethanol, cellulosic ethanol, and corn derived industrial products and processes.

Raven Industries, Sioux Falls, SD www.ravenprecision.com; *November 2014 to March 2015*
North American Sales Manager of Precision Agriculture Technology

- Sales Leadership for a team of 15 account managers spread across the United States and Canada
- Sales Forecasting and Analysis for hundreds of accounts totaling over $60 million in annual sales
- Contract Negotiations with OEM and after-market distribution partners

Raven Industries, Sioux Falls, SD www.ravenprecision.com; *March 2010 to November 2014*
Product Manager of Planting, Seeding and Harvest Control Product Lines

- Led development and launch of OmniRow Planter Controls, OmniSeed Air Seeder Controls, UHarvest Grain Cart Monitoring System, and SmartYield Pro Yield Monitoring System
- Business Development of an industry leading Multi-Hybrid planter control system
- Team Lead for Raven SmartQuote Guided Sales and Quotation Tool
- Grew product line sales from a few thousand $ into multi-million $ per year business segments
- Recipient of four ASABE AE 50 Product Innovation Awards
- Member of Raven Leadership Council

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EXPERIENCE CONTINUED

Bratney Companies, Boise, ID www.bratney.com; *February 2003 to September 2005*
Construction/Mechanical Project Engineer of Industrial Processes

- Developed and Executed proposals for multiple design-build construction projects
- Project Managed the construction and startup of a green field alfalfa cleaning and bagging facility

Multiquip, Boise, ID www.multiquip.com; *Dec 2000 to Feb 2003; Sept 2005 to Dec 2007*
Engineering Department Manager for Light Construction Equipment Manufacturer

- Manage a team of 15 engineers, designers, drafters, and technicians tasked with supporting the safety and technical demands of 200+ plus finished goods.
- Manage a $1.3 million annual budget for engineering product support and product development.
- Coordinate with product managers, manufacturing, quality, purchasing, marketing, and suppliers
- Responsible for designing equipment to latest global safety and homologation standards
- Coordinate intellectual property development with patent attorneys

Case Corporation, Fargo, ND www.cnh.com; *October 1996 to July 2000*
New Product Development Engineer for Planting and Seeding Division

- Developed SDX 30 and SDX 40 single disc planter programs from conception to production

Ag-Chem Equipment Co., Jackson, MN www.agcocorp.com; *May 1996 to September 1996*

- Performed and analyzed engine dynamometer tests, hydraulic tests, and other product tests utilizing data acquisition systems

PATENTS

- Inventor on U.S. Patent # 5,915,312 & 6,047,652: *Pneumatic Seed Delivery System*
- Inventor on U.S. Patent # 6,116,172: *Shank Mounted Row Crop Opener*
- Inventor on U.S. Patent # 6,386,127 6,640,732 & 6,644,223: *Disc Opener for a Seed Planter*
- Inventor on U.S. Patent # 6,454,019: *Ag Implement Down Pressure System*
- Inventor on U.S. Patent # 7,497,522: *Concrete Saw Stay Level Handlebars,*
- Patent Pending: *Multi-Hybrid Planter Controls and Combine Yield Monitor Systems.*

SOFTWARE

SolidWorks CAD and Simulation, LabVIEW, MathCAD, Visio, CREO, AutoCAD, SAP R/3, Visual Basic, Working Model, Microsoft Office and Microsoft Project

EDUCATION

BOISE STATE UNIVERSITY (BSU) Boise, ID www.boisestate.edu
Masters of Mechanical Engineering with Business Emphasis
Graduation Date: December 2004 GPA: 3.5/4.0
Project Paper: *Design of a Conceptual Biodiesel Production Facility*

SOUTH DAKOTA STATE UNIVERSITY (SDSU), Brookings, SD www.sdstate.edu
BS Agricultural Engineering with Power and Machinery Focus
Graduation Date: May 1997 GPA: 3.6/4.0

ASSOCIATIONS

- Certified with Carew International Dimensions of Professional Selling® Program
- Member of FarmHouse Fraternity www.farmhouse.org
- Member of Society of Automotive Engineers www.sae.org
- Member of American Society of Mechanical Engineers www.asme.org
- Member of American Society of Agricultural and Biological Engineers www.asabe.org
- SolidWorks User Group

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EXPERT WITNESS CASE HISTORY

Testimony and/or Deposition

1. Precision Planting, LLC and AGCO CORP (Petitioners) vs DEERE and COMPANY (Patent owner), Case Numbers: IPR2019-01044; IPR2019-010446; IPR2019-01050; IPR2019-01052; IPR2019-01053; IPR2019-01054; IPR2019-01055 (USPTO Patent Trial and Appeal Board). Multiple reports and approximately 40 hours of deposition.
2. Bazooka Farmstar, LLC (Petitioner) vs Nuhn Industries Ltd. (Patent Owner), IPR2023-01161 (USPTO Patent Trial and Appeal Board). Declaration testimony on behalf of Patent Owner
3. Bazooka Farmstar, LLC (Petitioner) vs Nuhn Industries Ltd. (Patent Owner), IPR2024-00004 (USPTO Patent Trial and Appeal Board). Declaration testimony on behalf of Patent Owner
4. Nuhn Industries Ltd. (Plaintiff) v. Bazooka Farmstar, LLC (Defendant), Case No.. 3:22-cv-00015, (S.D. Iowa). Expert reports on behalf of Plaintiff

Patent Infringement and Patent Litigation

1. Wilmer Cutler Pickering Hale and Dorr LLP, Washington D.C. (2018 -2020). Deere and Company (Plaintiff) vs AGCO and Precision Planting (Defendants). Patent Infringement Review Expert for U.S. Patent Numbers: 8,671,856; 8,813,663; 8,850,998; 9,480,199; 9,510,502; 9,661,799; 9,686,906; 9,699,955; 9,807,922; 9,807,924; 9,820,429; 9,861,031; 10,004,173. Working on behalf of the defendant.
2. Harness, Dickey & Pierce, P.L.C. Washington D.C. (2023-present). Bazooka-Farmstar, LLC (Petitioner) v. Nuhn Industries LTD,. (Patent Owner). Patent validity case. Review Expert of US Patent No. 11,358,425. Working on behalf of Patent Owner.

Product Liability and Safety Litigation

1. Marlow, Woodward & Huff, PLLC, Yankton SD (2023). Dwayne Schmitz (Plaintiff) vs Clark Equipment Co. (Defendants). Product liability and safety review. Working on behalf of the Plaintiff. Work involved a safety test report and declaration report.

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