

EDUCATION

B.S., Electrical Engineering, University of Nebraska-Lincoln

PROFESSIONAL REGISTRATION (P.E.)

Registered Professional Electrical and Computer Engineer (P.E.), State of Nebraska

EXPERIENCE

Neurintel, LLC

Co-founder, Owner

Chief Engineer, Mar 2005 - 2019

President, 2020 – Present

I offer consulting and research and design services that provide solutions to dynamic systems in many different fields ranging from biotechnology to autonomous underwater vehicle design to assistive technology. I specialize in mathematical and engineering areas that include data mining and analysis, signal processing, modeling and control system design.

Also, I provide forensic investigative and expert witness services in the electrical field. This includes experience in the investigation of accidents, fires, equipment failures and malfunctions, circuit analysis, and manufacturing and design defects.

Millard Electric Co, 10306 S 144th St, Omaha, NE 68138

Electrician Apprentice

May 2000 – Aug 2003

Roughed in and finished properties in the residential sector under the supervision of journeymen electricians. Properties ranged from small single-family units to multi-million dollar luxury homes to large apartment complexes.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Institute of Electrical and Electronic Engineers (IEEE)
- National Society of Professional Engineers (NSPE)

SELECTED RESEARCH AND PROJECTS

Assistive Technology (University Contracts)

- Development of robotic interactive toy to communicate with and improve the motor skills of children with developmental disabilities.
- Development of a context aware system to allow people with cognitive disabilities the opportunity to work in an assembly line.

Biotechnology (Private Industry Contracts)

- Initial development of a fluorescence detection device for molecular biology diagnostics.

SELECTED RESEARCH AND PROJECTS [Continued]

Control Systems (Government/Military Contracts)

- Worked on a crane system to extract and emerge a disabled undersea vehicles from deep sea waters (ocean bottom).
 - Specifically developed an observer to improve the design of the control system.
- Control of unmanned undersea vehicle (UUV).
 - Design and test improved control system using an observer for the UUV.

SELECTED EXPERT WITNESS & INVESTIGATIVE ENGINEERING PROJECTS

- Semi-tractor-trailer truck battery fire causing vehicle destruction.
- Gravel pit accident involving a worker being electrocuted from a sand sifting machine.
- Residential house fire when a worker used an arc welder to thaw water pipes in the neighborhood.
- Cherry picker lift malfunction accident involving injury of a maintenance worker.
- Employee injury from electrocution while operating a milkshake machine at a fast food establishment.

PEER-REVIEWED PUBLICATIONS

Gartner, Michael, Kristopher Linstrom, A. John Boye and Nancy Palmer, "Determining Emergency Height and Weight Measurement in Cameroon Africa School Children - Are Hydration and Body Fat Significant Variables?" *16th International Conference on Emergency Medicine (ICEM)*, April 18-21, 2016; Cape Town, South Africa.

Song, Pengfei, Kristopher R. Linstrom, A. John Boye, Kornelia Kulig, Judith M. Burnfield and Gregory R. Bashford, "Tendinopathy Discrimination Using Spatial Frequency Parameters and Artificial Neural Networks", *Proceedings of the 2009 IEEE International Ultrasonics Symposium (IUS)*, Rome, Italy, September 20-23, 2009, pp.1902-1905.

Linstrom, Kristopher R. and A. John Boye, "A Neural Network Prediction Model for a Psychiatric Application", *Proceedings of the Sixth International Conference on Computational Intelligence and Multimedia Applications (ICCIMA'05)*, Las Vegas, Nevada, August 16-18, 2005, pp. 36-40.