

**Elizabeth T.B. Johnston****Education:**

*M.S. Engineering Management, 2015*

*B.A. Russian Studies with Math Minor, 2007*

*B.S. Electrical Engineering, 2006*

**Registration:**

Current Registrations: Alaska - Electrical, AELE-12945

Alaska – Fire, AELF-14150

Inactive registrations: Texas 113765, North Dakota 8798

Elizabeth has a MS degree in Engineering Management and BS degree in Electrical Engineering from the University of Alaska Fairbanks. She is a licensed professional electrical and fire protection engineer and has lived and worked throughout Alaska on many projects. She has over 10 years of experience designing systems for commercial, educational, and institutional projects. Elizabeth is a member and volunteer with the Institute of Electrical and Electronics Engineers (IEEE), the world's largest technical professional society.

Elizabeth is experienced in working with a wide variety of clients including private owners, school districts, local governments, and military projects. She has designed many projects in remote areas of Alaska and is familiar with the challenges associated with construction in rural locations. Elizabeth has written numerous reports associated with condition assessments, energy savings, and project feasibility.

**Summary of Work Experience:**Design Alaska

Position Held: Chief Electrical Engineer

Business: Architect-Engineer Design Consultants

Employed: 2013-present

Chief Electrical Engineer responsible for designing and subsequent signing and stamping many successful commercial, governmental, educational, institutional, medical and residential projects; encompassing significant new and remodel projects throughout rural and urban Alaska.

In charge of a team of registered professional electrical engineers and engineers-in-training. Projects typically include providing: initial consultations, design goals, contracts, electrical drawings, specifications, equipment selections, review of project submittals, inspections, commissioning and record drawings.

Our firm is a full-service Architectural, Engineering, and Survey firm with Registered Architects and licensed Professional Engineers in Structural, Civil, Mechanical, and Electrical Engineering. We enjoy

being part of a fully integrated design team, which allows us to use tools such as Revit BIM modeling to achieve coordination in 3D. We value our Northern climate and practice sustainable design to preserve it.

#### Design Alaska

Position Held: Electrical Engineer  
Business: Architect-Engineer Design Consultants  
Employed: 2007-2013

Design experience included: exterior and interior lighting, power, life safety, fire alarm, mass notification, paging and public address, grounding, telecommunications, LAN, CCTV, lightning protection, intrusion detection, and hazardous area design per NFPA 70.

Project assignments included maintenance facilities, telecommunication facilities, airports, schools, commercial building projects, civic and government building projects, rural projects and military facility projects ranging from small facility modifications to multi-million dollar new construction.

#### University of Alaska Fairbanks

Position Held: Adjunct Professor  
Business: Education  
Employed: 2012

Taught electrical drafting technology class using 3d modeling software Revit.

#### University of Alaska Fairbanks

Position Held: Facilities Engineer  
Business: Design & Construction Administration  
Employed: 2006-2007

Design and contract administration engineer ensuring contract compliance as a quality assurance representative of the University. Was designer for facilities modifications projects; attended pre-design meetings, design reviews, sessions with the users/clients; performed construction quality assurance and inspection work including field surveys, observations, site investigations, and data gathering.

#### Professional Affiliations:

BICSI (Building Industry Consulting Service International)  
IEEE (Institute of Electrical and Electronics Engineers)  
IESNA (Illuminating Engineering Society of North America)  
ASPE (Alaska Society of Professional Engineers)  
ASME (American Society of Mechanical Engineers)

#### Awards Received:

- 2015 Illuminating Engineering Society Award of Merit: In recognition of meritorious contribution to lighting design, professionalism, ingenuity, and originality. For the Project Carlson Center Nanook's Locker Room.
- 2013 Alaska Society of Professional Engineers Young Engineer of the Year

- 2011 IEEE Membership & Geographic Activities GOLD Achievement Award "For outstanding service as Program Chair of the 2011 GOLD Summit, providing an interactive and engaging experience for GOLD volunteers from around the world."
- 2009 IEEE Membership & Geographic Activities Achievement Award- "For outstanding accomplishment and contributions toward the implementation of the 2009 IEEEExtreme Programming Contest."
- 2009 IEEE Community Service Award - Alaska Section- "For outstanding contributions to the IEEE Alaska Section, exemplary leadership and support of IEEE student activities, and support of women in engineering"

### **Volunteer Positions Summary:**

IEEE Professional Society

#### *Current Positions:*

- Region 6 North West Area Chair - Responsible for planning area meetings for the region and providing training to section leaders throughout the Northwest USA, 2015-2016.
- Publications Services and Products Board (PSPB), Potentials Magazine Associate Editor, 2014-2017: IEEE Potentials Magazine is a publication dedicated to undergraduate and graduate students and young professionals. IEEE Potentials explores career strategies, the latest in research, and important technical developments. Through its articles, it also relates theories to practical applications, highlights technology's global impact, and generates international forums that foster the sharing of diverse ideas about the profession.

#### Previous positions:

- IEEE Nominations & Appointments Committee, 2013-2015
- Publications Services and Products Board (PSPB), Potentials Magazine Editor-in-Chief, 2011-2013
- IEEE History Committee, 2011-2013
- Region 6 History Coordinator, 2011-2012
- Membership & Geographic Activities Board (MGAB), Graduates of the Last Decade (GOLD) Representative to Student Activities Committee (SAC), 2010
- Fairbanks Subsection Chair 2009-2012
- Publications Services and Products Board (PSPB), Potentials Magazine Associate Editor, 2009-2010, Student Editor 2006-2008.
- MGAB, Nominations and Appointments (N&A) Committee, Member, 2009-2010
- Women in Engineering, Regional Coordinator, 2009
- MGAB, Student Activities Committee IEEEExtreme Programming Competition, General Chair, 2009, Member of Organizing Committee 2006 & 2008
- IEEE ETA KAPPA NU Transition Ad Hoc Committee, 2009
- Alaska Section Secretary, 2008.
- Regional Student Representative, 2005-2008.
- University of Alaska Fairbanks: Student Branch Chair, 2004-2005.