Kassandra Kleinfeld

Vancouver B.C. • 604-555-1234 • kassandra.kleinfeld@gmail.com • linkedin.com/in/kkleinfeld

HIGHLIGHTS OF QUALIFICATIONS

- 2 years' academic experience designing, implementing, and testing end-to-end process integrations and customizations
- Comfortable developing design specifications and delivering implementation/support documentation
- Project experience integrating physical sensors with software interfaces and defining I/O parameters
- Authored discrepancy reports and performed integration regression testing to verify software solutions

TECHNICAL SKILLS

Lab Equipment	Power Supplies and Signal, Generators, Soldering Equipment, Probes and Testing Equipment Oscilloscopes and Multimeters, Scales and Pipettes, Gas Gauges and Regulators, Microscopes Dissection Tools
Software	SolidWorks, SolidEdge, C++, Shell scripting, Python, GitHub, Adobe Creative Cloud, MATLAB, CentOS/RedHat Linux
Certifications	Occupational First Aid (Level 1), WHMIS Training and Chemical Lab Safety, Class 5 Drivers Permit

EDUCATION

University of British Columbia Anticipated Apr 2017
Bachelors Degree of Applied Science, Integrated Engineering

TECHNICAL PROJECTS

Tidal Generator Rotor blade Manufacturing Process Dec 2016

- Designed and documented a manufacturing process and researched appropriate materials for a 3-meter-tall helical arcing rotor blade capable of generating tidal energy
- Consulted throughout the design process with a senior engineer/subject matter expert over a series of in-person meetings to ensure that best industry practices were followed and client specifications were met
- Created a 1:10 scale polymer prototype with the proposed process to use for similitude testing which confirmed project feasibility, and provided a report detailing minor discrepancies

Structural Analysis of Gingerbread Apr 2016

- Developed and analyzed a rigorous testing procedure for gingerbread, conceptualizing it as a small-strength material
- Performed a standardization analysis, controlling as many factors as possible
- Authored a comprehensive final report that detailed each stage of the testing, discrepancies, and underlying theory and justification for the project design, which was profiled in the December edition of UBC Reports

Speed Sensing Tennis Racquet Dec 2015

- Created a racket-mounted strain gauge sensor system that measured the strain in a tennis racket and interpolated this stress to a predicted serve velocity
- Utilized an integrated amplifier to convert measured signals into standard voltages or current outputs
- Connected outputs to a digital display to show measured speeds of 5 km/h to 160 km/h with an accuracy of ± 4 km/h

ADDITIONAL EXPERIENCE

Engineers without Borders, (Volunteer) UBC Sept 2015 - May 2016

Director of Chapter Health

- Assisted in the structural design of a greenhouse in Kenya, and helped to install hydroponic systems that utilized less water while being more nutritious and 40 % cheaper than traditional dairy feeds
- Recruited 220 new volunteers over a 9-month period, while coordinating 300 volunteers through emails and Chapter meetings to assist and take part in several multiday member appreciation activities

Kootenay House, Place Vanier Residence, UBC Sept 2014 – May 2015

House President

- Oversaw and ran a 6-member House Council, communicating with other house presidents as needed, and mentored and supported all supervising floor representatives to address residence challenges and coordinate house events
- Developed and managed an annual budget of 1000$ for 100 house residents, to provide social events including ice cream socials, and movie and game nights

The Point Restaurant and Tapas Bar, Richmond, BC June 2013- Oct 2014

Hostess and Server

- Greeted and served customers with a professional and friendly demeanor, and ensured that all customers were satisfied with their experience
- Promptly communicating special guest requests and concerns to management and kitchen staff

VOLUNTEER EXPERIENCE

Sustainability Club, UBC Sept 2015 - Ongoing

Member

- Collaborated with the UBC Sustainability Office to develop an assessment that measures the environmental sustainability of the UBC campus
- Facilitated a sustainability assessment of the Chemical and Biological Engineering Department by scheduling meetings with department and facilities heads and analyzing waste metrics as part of a 3-person team

Faculty of Applied Science, UBC Aug 2014- July 2015

E-Team Member

- Developed and presented engaging co-curricular events and professional development workshops for groups of 40 engineering undergraduates that focused on current engineering topics of interest
    - Coordinated upcoming program scheduling and events with a team of 11 peer leaders through bi-weekly meetings