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DAVID JOHNSON

PROFESSIONAL PROFILE

- A self-directed, dedicated and conscientious engineering professional
- Successfully completed nine engineering design projects, including a working prototype of a wearable heat-stroke monitoring device, as well as a rehabilitation device for patients with major hand/wrist trauma
- Seeking a career path that involves helping people with assistive technologies such as wearable devices, biomechanical and medical devices, or research involving human health

SKILL SUMMARY

- Excellent project and time management skills with demonstrated ability to prioritize, initiate and drive projects to completion
- Thorough knowledge of biomedical instrumentation, engineering and design principles as well as experience in experimental design
- Demonstrated leadership and problem-solving skills
- Research skills honed through master's project and summer work including literature reviews, human factors, statistical analysis, and professional writing techniques
- Solid knowledge of engineering fundamentals and demonstrated ability to apply them to development, optimization and troubleshooting activities
- Proficient in MATLAB, Microsoft Word, PowerPoint, and Excel, statistical methods, and research
- Project experience with SolidWorks, C coding, R, Minitab, medical imaging analysis, and ISO quality standards
- Strong written and oral communication and presentation skills
- Strong work ethic, capable of working effectively as a team member, leader or independently with minimal supervision
- Registered with Professional Engineers Ontario (PEO) as an Engineering Intern (EIT)

EMPLOYMENT HISTORY

University of Guelph | Graduate Teaching Assistant | September 2016 – April 2018

- Led lectures and seminars with groups of up to 30 students while maintaining course load as a master's student; responsible for marking and grading exams and assignments as well as exam invigilation; enhanced leadership, time management, and presentation skills

University of Guelph | Research Assistant | June 2017-August 2017

- Gathered participants, ran experimental trials, and analyzed data for research in the DRiVE lab at the University of Guelph

Eden Quality Management | Consulting Support | April 2018 – August 2018

- Developed and documented process flows for clients' ISO 9001 quality management systems (summer internship)

AFM Landscape and Construction | Part-time Landscaping | June 2018 – July 2018

- Followed a strict schedule to build stairs and patios for newly built homes

Flamborough Hills Golf Club | Pro Shop Cashier | July 2016 – September 2016

- Dealt with many members of the public, and learned how to independently troubleshoot problems

YMCA of Hamilton / Burlington | Aquatic Team Lead & Lifeguard | September 2010 – August 2016

- Progressed to Team Lead which involved supervision of 8 instructors / 120+ swimmers over a 3-hour shift; honed leadership and organizational skills and gained experience dealing with members of the public

EDUCATION

M.Eng in Biological Engineering | University of Guelph | September 2016 – December 2018

- Studied how people react to driving hazards using a driving simulator (hazards included: pedestrian, cyclist, and left turning vehicle)

- Used data from an eye tracker and VICON motion tracking to quantify components of Brake Response Time (i.e. Perception time, Inspection time, and Movement time)
- Courses involved learning experimental design and statistical analysis using R and Minitab
- Furthered understanding of Matlab and SolidWorks, as well as writing and presentation skills
- Researched under the supervision of Dr. Michele Oliver (research publication pending)

B.Eng with Honours in Biomedical Engineering | University of Guelph | September 2012 – April 2016

- Completed nine design projects, including a rehabilitation device for hand transplant / wrist surgery patients, as well as a working prototype of a wearable heat stroke monitoring device
- Courses included signal processing, biomaterials, biomechanics, medical imaging modalities and design
- Completed multiple assignments and projects using Matlab

VOLUNTEER EXPERIENCE

Good Shepherd Hamilton | Christmas 2010-2014

- Served Christmas dinner at an annual community event

PGA Tour, Canadian Open | 2015, 2016, 2017

- Driver / Laser scoring

Kidney Foundation | 2009, 2010, 2011

- Collected donations door-to-door

Carlisle Golf & Country Club | Summer 2006-2008

- Assisted ground crew with daily course maintenance

INTERESTS / ACTIVITIES

- Highly passionate about keeping up with new medical, engineering, and science marvels
- Avid golfer and rock climber