Theodor M. Perivolaris

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Relevant Experience

Engineering Capstone Design Project   *(Oct. 2013 - Apr. 2014)*
Project Manager

- Developed and tested an iOS application able to classify skin conditions based on photos, using supervised machine learning (neural networks) and an Apache server
- Improved the neural network to obtain a confidence of 95%, an increase from 67%, by using parallel computing to find the optimal number of hidden nodes
- Regularly attended meetings with supervising professor, and created weekly progress reports.

Other Selected Projects
- Designed, fabricated and tested a 3 lead monitoring electrocardiogram (ECG)
- Created algorithm in MATLAB to detect possible seizures in EEG signals
- Conducted field study and analysis on the use of rapid serial visual presentation to increase the rate of reading

Key Courses
- Design of BioMEMS, Biomedical Image Analysis, Biomedical Instrumentation, Human-Computer Interfaces, Rehabilitation Engineering, Radiation Therapy Devices

Work Experience

Ryerson Engineering Student Society   *(Jan. 2012 - Oct. 2012)*
Orientation Week Chair

- Organized and supervised a week of events for over 1,000 new Engineering students.
- Secured and managed the $18,000+ budget, a 55% increase compared to the previous year, by presenting the need for an increase to the Dean of Engineering.
- Managed a team of 3 Vice-Chairs, multiple other organizing volunteers, and a team of more than 90 student leaders.
- Prepared feasibility and risk management analysis for each event
- Laid groundwork for quality management system

Ryerson Student Center: Oakham House   *(Sept. 2011 - Present)*
Line Cook

- Gained excellent practical experience with time management, working in teams, working under pressure, and conflict resolution.

Volunteer Experience

FIRST Robotics Competition - Team 907   *(Sept. 2010 - Dec. 2012)*
Mentor

- Advised Team 907 through strategy synthesis and design process.
- Developed and maintained relationships with student team members and mentors.

Toronto East General Hospital   *(Sept. 2007 - Nov. 2008)*
Student Volunteer

- Assisted nurses, patients and doctors with any tasks as requested in a quick and courteous manner.

Education

B.Eng
Ryerson University
Biomedical Engineering
April 2014

Expertise

Computer Skills
- MATLAB
  - Neural Networks
  - Parallel Computing
  - Image Processing
  - Signal Processing
  - Simulink
- CoventorWare
- Python
- Xcode
- Microsoft Powerpoint, Word & Excel
- Apple iWork Suite