

Yannick Hermann Ngana

Systems Design Engineering | University of Waterloo

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Professional Profile

Financial & Dynamic Modeling

- Knowledgeable of the modelling process: modeling start-up business planning, secondary school planning
- Certified in financial statements modeling & fundamental analysis covering market analysis, data analysis and financial modeling
- Skilled in systems thinking and system dynamics approaches to build models that have policy implications

Project Management

- Worked with multiple start-ups in implementing and sustaining continuous project management practices to minimize investment risks and maximize return on investments
- Excellent knowledge of Critical Path and Critical Chain project management methodologies
- Skilled in using Statistical Process Control to monitor projects with the use of Control Charts to identify special causes that affect a system
- CAPM Certification Candidate

Programming

- Experienced with object-oriented programming using C++ and Java
- Highly knowledgeable in application design with Macros (VBA) in MS Excel and Access
- Familiar with fourth-generation programming for matrix manipulations, and creating and implementing algorithms using MATLAB
- Skilled in creating websites and interface design using HTML and CSS

Employment Experience

UBS Investment Bank Toronto, Ontario

Apr 2013 - Sept 2013 & Dec 2013 - May 2014

Investment Banking - Project Risk Intern

- Instituted a four-eye-check process and developed a comprehensive application for Stock Broker Loan borrowing and settling
- Implemented a flexible and automated Dashboard to report key metrics to upper management in EoD reporting
- Built a Trading Error Reporting System to capture, report and get approval on Trading Errors
- Structured and wrote Quality Assurance Plans for various key reports
- Created various databases now used for information and requirements gathering
- Automated multiple "Run the Bank" Reporting processes using VBA

OntarioMD Toronto, Ontario

August 2012 – Dec 2012

Business Intelligence Analyst - Engagement Management

- Designed and developed the second iteration of the *Practice Management Toolkit*; an MS Access based application used by Field Staff with interactions with MS SQL and CRM databases
- Developed reports to increase the success of activities pursued as well as impact analyzes regarding numerous action plans
- Designed and introduced dashboards for Management and Regional Managers that helped improve decision making and strategy development
- Optimized and streamlined various Reporting Processes

Northwater Capital Management Incorporated Toronto, Ontario

Jan 2012 – Apr 2012

Associate – Intellectual Property Fund

- Anchored the deployment of Critical Chain Project Management to Portfolio companies and internally at Northwater
- Built project work plans that guided projects throughout the project management life cycle with the following investee companies:
 - Liquid Piston – Developing a rotary combustion engine, based on an innovative thermodynamic cycle
 - VanDyne SuperTurbo – Developing a system that integrates turbocharger and transmission technologies
 - Aquilon – Trading operations solution provider for participants in the physical electricity markets
 - Four Quadrants – strategically designed investment portfolio to offer a risk-balanced exposure to global asset classes
- Analyzed and synthesized start-up companies and their applications into Recommend Reports for investment decisions

Education

Candidate for Bachelor of Applied Science

University of Waterloo

Waterloo, ON, September 2011 – Present

- Courses in Systems Models, Organizational Design and Technology, Engineering Economics of Design, Data Structures and Algorithms

Ontario Secondary School Diploma

Earl Haig Secondary School

Toronto, ON, September 2007 - June 2011

- Valedictorian of the graduating class of 500+ student and an Ontario Scholar

Academic Achievements

- **Bloomberg Essentials Certification:** University of Waterloo, Waterloo, ON, May 2014
- **Waterloo Engineering Competition** - First Place in designing a solution that would address Blackberry's Market share problem: University of Waterloo, Waterloo, ON, Nov. 2013
- Member of the **National Society of High School Scholars:** Atlanta, Georgia, USA, May 2011 – Present
- **President's Scholarship of Distinction**, University of Waterloo, Waterloo, ON, Sept. 2011
- Full scholarship to present a contribution at the 2011 **International System Dynamics Conference:** Washington DC, USA, June 2011
- Full scholarship to present a contribution at the **Creative Learning Exchange**, 2010 Conference: Boston, USA, June 2010
- Selected to attend **Emerging Global Leaders Program:** York University, Toronto, ON, March 2010

Extracurricular

- **International System Dynamics Society: Member**
 - Reviewed Papers for the 2013/2014 International Conference
- **Development, Education, Research Innovation Support (DERIS): Student Volunteer**
Toronto, ON, Jan. 2007 – present
 - Created, developed and maintained the organization website
- **Association for Aid in Education and Development (AAED): Student Leader**
Toronto, ON, Jan. 2008 – present
 - Led and organized initiatives such as fundraisers and outreach

Interests

- Systems Modeling (Human Factors)
- Mergers and Acquisitions
- Sports (soccer, basketball, tennis)
- New and emerging technology & Stock Market