

Yannick Hermann Ngana

Systems Design Engineering | University of Waterloo

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Professional Profile

Financial & Dynamic Modeling

- Certified in Financial Engineering and Risk Management (Columbia University)
- Certified in financial statements modeling & fundamental analysis covering market analysis, data analysis and financial modeling (University of Waterloo)
- Skilled in systems thinking and system dynamics approaches to build models that have policy implications
- Bloomberg Essentials Certification

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 programming using C++, Java, Python
- Image Processing and machine learning
- 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

The Riverstone Insurance Group - Fairfax Company Manchester, New Hampshire

Sept 2014 - Dec 2014

Project Manager - Project Management Unit

- Implemented an impact analysis tool that quantified decision making for senior management and rolled out a benefits analysis tool for tracking of different company portfolios
- Led a \$4.2 Million company-wide collaborative workspace project, coordinating with employees and external vendors
- Helped in structuring Acquisition Framework relating to pre and post acquisition
- Coordinated monthly IT releases collaborating with both IT and different business units

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 an application for Stock Broker Loan borrowing and settling resulting in an expanded derivatives portfolio
- 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 resulting in lower trade PnL
- Automated multiple "Run the Bank" Reporting processes using VBA and Python

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
- Designed and introduced dashboards for Management and Regional Managers that helped improve decision making and strategy development

Northwater Capital Management Incorporated Toronto, Ontario

Jan 2012 - Apr 2012

Associate - Intellectual Property Fund

- Analyzed and synthesized start-up companies and their applications into Recommend Reports for investment decisions using Intellectual Property, market, investment and liquidation analysis, public company comparables etc
- Anchored the deployment of Critical Chain Project Management to Portfolio companies and internally at Northwater
- Built project plans that guided projects throughout the project management life cycle in order to reach funding 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

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, Statistics and Pattern Recognition

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

- **Resident Entrepreneur** - UWaterloo Velocity Start-up Residence
 - "FridgeMate" a tool to monitor contents in fridge letting user know of expiration. Used image processing and machine learning
- **Waterloo Engineering Consulting Competition - First Place**
 - designing a solution that would address Blackberry's Market share problem
- **National Society of High School Scholars**: Atlanta, Georgia, USA, May 2011 - Present
- **Full scholarship** to present a contribution at the:
 - **Int'l System Dynamics Conference**: Washington DC, June 2011
 - **Creative Learning Exchange Conference**: Boston, June 2010

Extracurricular

- **UW Finance Association: Member**
- **UW Management Consulting Club: Member**
- **UW Entrepreneurship Society: Member**
- **International System Dynamics Society: Member**
 - Reviewed Papers for the 2013/2014 International Conference

Interests

Systems Modeling • Mergers and Acquisitions • New Emerging Tech • Stock Market • Sports (soccer, basketball, tennis)