Drake Kho

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PROFESSIONAL PROFILE

Technically skilled engineer eager to apply practical knowledge and experience to solving multifaceted problems and working to bring products from conception through to production and service. Strong project management and communication skills, suited to working either alone and cooperatively in a fast-paced multi-disciplinary business environment.

PROFILE OF SKILLS

- Simulation Modeling & Programming
- Strong research and analytical skills
- Conception & Prototyping
- Excellent Communication Skills
- Strong Problem-Solving Skills
- Multi-lingual in English, Mandarin, Hokkien & Teochew. Basic Cantonese & French
- Project Management & Development
- Systems Evaluation & Analysis
- Systems Design and Integration
- Strong Technical Skills
- Operations Monitoring
- Time Management

EDUCATION

Graduate Certificate – Seneca College, Toronto, ON 2017
Major: **Professional Accounting Practice**

Masters of Engineering – University of Toronto, Toronto, ON 2013
Major: **Aerospace Science and Engineering**

Bachelors of Engineering – Ryerson University, Toronto, ON 2010
Major: **Aerospace Engineering** Specialization: **Management Science**

EMPLOYMENT EXPERIENCE

Renovations Simplified. – Toronto, ON July 2015 – Present
Renovation Project Lead

- Develop, manage and control budget and job costing, including cost analysis and budget management
- Track activities and milestones against detailed project plan
- Responsible for estimating, budgeting, scheduling and planning of projects
- Client relationship cultivation and coordination between various stakeholders
- Provide consultation and estimation services to potential and existing clients and customers

Bombardier Inc. – Toronto, ON May 2014 – July 2015
Engineering Intern – Aero and Flight Dynamics

- Coordinated with cross-functional teams to provide simulations, stability & controls testing & verification
- Developed, investigated, validated, modified and documented dynamics and systems simulation models
- Designed and implemented an extensive simulation based testing and evaluation to determine the aircraft maneuverability, handling quality and flight conditions, in accordance with TC and FAA regulations
- Conducted stability & controls, control surface deflection, failure and flight analysis
- Supported wind tunnel & flight test activities, including verification, performance and data analysis
- Improved efficiency, updated and validated simulation model in preparation for flight testing

Beverly Real Estate and Property Management Inc. – Newmarket, ON Jan 2013 – May 2014
Advertising & Marketing Representative

- Generated comprehensive advertising plans that included print, digital, mobile and niche media
- Managed and evaluated projects to resolve any quality, delivery or communication issues
- Coordinated and maintained company's products, marketing programs, promotions and media plans
- Facilitated customer requirements throughout their term
- Formulate and revise company and product overviews for employees, clients, and customers

COMPUTER SKILLS

- Technical proficiency in MATLAB and Simulink, and CATIA V5
- Basic/Intermediate ability in BASIC, C++, C, Java, Visual Basic, HTML, AutoCAD, and ANSYS
- Extensive experience with MS Office Application; Project, Access, Excel, Word, and PowerPoint

SELECT PROJECTS

Global 7000/8000 – Simulations, Stability and Controls – Toronto, ON May 2014 – July 2015

- Utilized MATLAB and Simulink to ensure controllability and stability
- Analyzed wind tunnel test results for adherence to theoretical results.
- Programmed and setup desktop simulator, Mini-REFS (Reconfigurable Engineering Flight Simulator), and Full REFS in preparation for testing/simulation conditions.
- Investigated, interpreted, and reported simulation and wind tunnel results.
- Preparation for first flight by improving efficiency and removal of redundancy in Simulink model.

Simulated Model of a Human Sensory Systems Sept 2011 – Dec 2011

- Determine how the Human Sensory System is utilized during flight operations, and how the various sensory input affects the pilots ability during flight
- Used MATLAB to generate and program a simulation model of the Human Sensory Systems
- Utilization of a flight simulator to collect experimental data and test the model

Auto-Pilot Flight Control Simulation and Programming Sept 2011 – Dec 2011

- Using MATLAB and Simulink; program, design and test an auto-pilot control sequence for uses while undergoing severe turbulence

Martian Lander Design, Manufacture, Program and Operation (Fully Functional) Jan 2010 – April 2010

- Conceptualize and design the lander, subject to structural, operational & payload mission requirements
- Drafting/Design of components using CATIA V5, and fabricated/manufactured using a CNC machine
- Design, testing and operations of self-righting mechanism for Martian lander
- Using BASIC, program the operation code and procedure for lander operations
- Operational testing and execution of final fully functional Martian lander.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, Canadian Aeronautics and Space Institute, 2010 – Present
- Vice President of Ryerson Student Union, 2007 – 2010
- Executive, Ryerson Robotics Club, 2008 – 2010
- Member, Ryerson Rocketry Club, 2008 – 2010