

FRANCIS LAM

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PROFESSIONAL EXPERIENCE

Core Tech Industrial Corp.

Ballston Spa, NY
Feb 2017 – Present

Mechanical Engineer

- Directing and developing product lines for clean agent, HPCO₂, and water mist fire suppression systems
- Leading bill of material (BoM) modularization, improving BoM visibility and reducing engineering time for new product variants
- Perform design calculations including pressure drop, structural, and center of gravity

Supreme Screw Products

Plainview, NY
Sep 2015 – Feb 2017

CNC Machinist

- CNC programming (G Code), tooling, operating, and setup for Swiss type CNC lathes of up to 12 Axes (Tornos DECO 10, 13, 16, 20, 26, and SwissNano)
- Trained operators in troubleshooting production by offsets, tool changes, and performed inspections
- Set up inspection programs with MicroVu InSpec and OGP Measure-X systems, saving up to 10 minutes per inspection

Cathay Pacific Airways

Hong Kong, S.A.R.
Jun 2012 – Aug 2012

Reliability Engineer (Intern), Technical Services Maintenance Programs Team

- Reviewed A-check escalation potential and proposed maintenance time reduction of up to 600 flight hours annually
- Coordinated with reliability teams in avionics, cabin, fuselage, power plant, and maintenance services (HAECO) to obtain maintenance records; summarized over 2,000 items across four company databases for six A320 aircraft
- Delivered report to and attended Hong Kong Civil Aviation Department regulatory compliance review meeting

GE Energy

Schenectady, NY
Aug 2011 – Jan 2012

Manufacturing Engineer (Co-op), Steam Turbine & Generator Technology

- Analyzed product flow and idle time between assembly and manufacturing processes to improve production time and labor efficiency by up to 10%
- Assisted in Six-Sigma project to improve production steam turbine casing components through studying effects of burrs on measurements and assembly
- Catalogued engineering drawings of 3 steam turbine models as part of a product modularization and cycle time reduction project

PUBLICATIONS

IEEE IAS (volume: 54, *Fault Analysis and Protection of a Series-DC Collection and Transmission System* issue: 5)

Oct 2018

EDUCATION

Rensselaer Polytechnic Institute
Troy, NY

B.S. Aeronautical Engineering, B.S. Nuclear Engineering, minor Economics

- Technical Skills: Computer aided design (Siemens NX, Solidworks, AutoCAD, Inventor), CNC Machining (tooling, quality control, programming), GD&T
- Coursework: Aerodynamics, aero-elasticity and structures, material science and mechanics, nuclear and radiation physics, propulsion systems, thermodynamics