

# ALEX KALOPOIS

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## SUMMARY

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Energy analyst and mechanical engineer with a diverse educational background and experience with energy efficiency projects in the multi-residential, commercial, institutional, educational and health-care sectors. An organized and hard-working employee, looking to expand my skill set and continue to work towards my P.Eng designation.

## SKILLS & ABILITIES

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### Computer

- Proficient in Microsoft Office Suite, including the use of pivot tables and macros
- Solid command of CAD programs such as SolidWorks and AutoCAD
- Experience using Metrix Utility Accounting Software to create energy baselines
- Knowledge of CFD fundamentals, using ANSYS CFX and SolidWorks Flow Simulation

### Technical

- Adept at organizing and analyzing large data sets to extract relevant information
- Working knowledge of building systems including lighting, water, HVAC, controls, building automation and building envelope
- Comfortable reading and interpreting engineering drawings and specifications
- Hands-on experience with welding, machining and CNC programming

### Personal

- Highly self-driven, but also able to work effectively as part of a team
- Able to adapt quickly to changes, with strong time management and attention to detail
- Excellent problem-solving skills, allowing for out-of-the-box solutions
- Proven eagerness to continue learning and growing as an engineer
- A perceptive communicator with experience in customer service and client relations

**Languages:** Fluent in English and intermediate French

## EXPERIENCE

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### Energy Analyst

Finn Projects

Toronto, ON  
Aug 2017 – Present

- Routinely conduct on-site building system audits to identify energy saving opportunities and facility improvement measures that include energy-efficient lighting, mechanical equipment upgrades, building envelope improvements and water conservation
- Experienced in project management, including the preparation of CCDC documents, bid forms, change orders and incentive applications.
- Reviewed 250+ incentive applications for the saveONenergy Retrofit Program totaling over \$200,000 in paid incentives
- Identified equipment run-time optimization and control opportunities for PDSB schools as part of Enbridge's RunItRight program, resulting in average gas savings of 3%

**NSERC Undergraduate Student Researcher**

Western University

London, ON

May 2014 - Aug 2016

- Performed CFD simulations in ANSYS CFX to investigate the effects of flow rate and porosity on heat transfer in porous media
- Collaborated on a paper presented at the 6th International Conference on Porous Media and Its Applications in Science and Engineering
- Used SolidWorks Flow Simulation to model and assess alternative heat sink designs and rotating machinery for implementation
- Utilized MS Excel and MATLAB to organize and analyze simulation data extracted from CFX-Post

**EDUCATION**

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**Dalhousie University**

Online

Certificate in Energy Engineering & Conservation

May 2018 – Mar 2019

- Detailed energy engineering for water, natural gas, steam, HVAC and control systems, lighting and industrial insulation
- Analysis of energy systems and global pressures due to energy consumption

**Western University**

London, ON

BESc in Mechanical Engineering

Sep 2012 - May 2017

- Graduated with distinction
- Emphasis on courses in heat transfer and thermodynamics, including internal combustion engines, nuclear engineering and FEA

**Fanshawe College**

London, ON

Certificate in Practical Elements of Mechanical Engineering

Sep 2014 - May 2015

- Recipient of the Shirley and Douglas Jones Technology Entrance Scholarship
- Hands-on experience with different welding processes, machining, CNC programming and metallurgy