

COLIN TURNER

JUNIOR MATERIALS ENGINEER

Citizenship: EU (Germany), Canada, USA

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References: gladly available upon request



SUMMARY

Self-starter with experience leading technical solutions. Creative by nature. Great sense of humour, quick to integrate on new teams. Specialize in materials science.

EXPERIENCE

► **DESIGN ENGINEERING FINAL PROJECT, McGill University:**

Design project in association with Hatch Ltd engineers (Montreal, CAN), 2015

Led a team of my peers in producing a feasibility study for a proposed mineral processing plant. The 185-page study detailed the plant's design, equipment-sourcing, budgeting, scheduling, and construction plans.

► **MINING ENGINEERING & PROCESSES RESEARCHER:**

University of New South Wales (Sydney, AUS), 2014

Achieved cutting-edge insights into industrial flotation mechanisms in mineral processing and documented results in a full scientific report. Successfully pioneered a new method of qualifying 3-dimensional aqueous air bubble interactions using ANSYS Fluent software for system modelling. This work included significant interdisciplinary research.

► **MATERIALS ENGINEERING INTERN: Rolls-Royce (Montreal, CAN), 2013**

Assisted in producing a 170-page report on Rolls-Royce's annual Research & Development activity. Lobbied project leaders from various departments to collaborate on the report. It included detailed surveys of ongoing project streams related to high-temperature composites and super-alloy components of gas turbines, as well as components of offshore rigs.

EDUCATION

BACHELOR OF MATERIALS ENGINEERING, CO-OP PROGRAM:

McGill University (Montreal, Canada), Graduated November 2015

NATIONAL OUTDOOR LEADERSHIP SCHOOL (NOLS) course:

Trekking 120 miles over mountain chains while studying leadership techniques (Wyoming, USA), 2010

SKILLS

LANGUAGES: English (100%) | German (95%) | French (95%) | Spanish (80%) | Basic understanding of Scandinavian languages (3 years of self-study)

SOFTWARE: JavaScript, HTML5, CSS3 | ANSYS Fluent (Computational Fluid Dynamics) | AutoCAD | Microsoft Suite

KEY STRENGTHS: Failure Analysis | Mechanical and thermal testing (Tensile, Impact, TGA, DSC) | Nanotechnology | Lithography | Manufacturing | Injection Moulding | CVD | MEMS | XRF | SEM | FTIR | Polymers | 3D Printing | Metallurgy | Deposition Methods | Engineering design | Project ownership and completion

PROJECTS

► **SMALL HOUSE BUILD (2016):** Assisted a friend in building his liveable house on wheels. Co-designed house layout and assembled furniture for the build.

► **WEB DESIGN (2016):** Self-taught web design and computer programming.

► **PARAGLIDING (2016):** Achieved my international paragliding license.