

Daniel Gabor Szekely

Glasgow, Scotland; Phone: +447510850646; Mail: szekely.d@gmail.com



Advanced Mechanical Engineer

I am an entry-level Advanced Mechanical Engineer with the aim of continuing on the path of working in the advanced industry sector. As an engineer, I aim to contribute to solving engineer challenges through efficiency, sustainability and profitability. During my studies I was able to analyse and approach many engineering challenges with a critical mind-set, while my work experience has given me the ability to tackle real life issues with practicality and efficiency.

AREAS OF EXPERTISE

- Energy sector – Oil and Gas, Renewable
- Pipeline Design, Stress Analysis
- Manufacturing
- Health & Safety Management
- Sales

SKILLS

- | | | |
|--------------------------|---------------|-----|
| • Critical mind-set | • MS office | ●●● |
| • Analytical thinking | • Mathcad | ●●○ |
| • Practicality, teamwork | • CAEPIPE | ●●○ |
| • Goal-oriented attitude | • ANSYS (FEA) | ●●○ |
| • Design | • CAD | ●○○ |

POSTGRADUATE EDUCATION

MSc (Merit – 2:1 upper division) in **Advanced Mechanical Engineering**

University of Strathclyde (2015-2016) Scotland

- **Principal Subjects:** Pressurised Systems, Machinery Condition and Diagnosis, Advanced Topics in Fluid Systems, Energy Systems Analysis, Subsea Systems and Installation, Electrical Power Systems, Energy Resource and Policy, Gas and Steam Turbines, Nuclear Power Plants.
- **Elective modules:** Project Management, Risk Management, Sustainability
- **Dissertation:** *'Stress Analysis in Piping Components'* - detailed in technical experience below

This course focused on advanced topics in mechanical engineering with an industrial approach, I was involved in group activities, debates, research for individual projects which contributed to acquiring analytical and critical thinking, while I improved my communication and teamwork.

UNDERGRADUATE EDUCATION

BSc (Hons 2:1) in **Earth Science Engineer** specialisation in **Oil and Gas Engineering**

University of Miskolc (2009-2013)

- **Principal Subjects:** Introduction of EOR Technics, Fundamentals of Well Drilling, Fundamentals of Reservoir Engineering, Hydrocarbon Production, Gas Distribution, Gas Transportation, Gas Storage, Applied Fluid Mechanics, General and Organic Chemistry I-II, Materials Engineering, Engineering Mechanics, Physics I-II
- **Dissertation:** *'Evaluation of Well Screen Selection'*

This dissertation involved calculation methods for determining acting forces on screens during gravel packing implementation; including field visits. The thesis received an excellent grade from the external examiner (92%). **Software:** Mathcad, Excel

TECHNICAL EXPERIENCE

MSc Thesis – Piping Code Compliance Comparison

University of Strathclyde (05.2016-08.2016) UK, Scotland

- Pipeline stress analysis and investigation of their behaviour focused on sustained stress, thermal expansion and SIF in bends.
- Pipeline design
- Knowledge in ASME B31.1, B31.3 and European EN 13480 codes.
- **Gained skills:** CAEPIPE, ANSYS, analytical thinking, problem solving, research, design

Service Engineer – Health and Safety Management, onshore drilling

Rotary Drilling Ltd. Hungary (09.2013-04.2014)

- Participation in Drilling and Well Completion operation.
- Enforcement of safety regulations.
- Working with high pressure equipment.
- Supervision of hazardous work phases.
- Administration of well-related data.
- **Gained skills:** problem solving, team work, flexibility, good under pressure, familiarity with high pressure equipment, safety management

BSc Thesis, Intern – Evaluation of Well Screen Selection

E-ON Gas Storage Zrt. (09.2012-11.2012, 07.2011-08.2011) Hungary

- Evaluation screen selection.
- Stress analysis on the gravel packing screens.
- Hands-on insight in gas storage: gas injection, gas production, gas drying.
- Gravel packing operation.
- Excellent grade from the examiner (92%).
- **Gained skills:** analytical thinking, problem solving, research, practicality, Mathcad, Excel

OTHER EXPERIENCE

Sales Assistant

Bosch and Siemens Home Appliances Group, (11.2011-02.2014), Hungary

- Promotion of household appliance at Media Mark, Saturn and Euronics.
- Cooperation with Sales Manager on sales targets.
- Participation in sales events and giving a presentation on Bosch and Siemens productions.
- **Gained skills:** communication, commercial awareness, negotiation, interpersonal skills

Trainee, Labour Worker – Manufacturing

Saint-Gobain Weber Terranova GmbH

Slovenia (2010 summer), Austria (2009 summer), Hungary (2006 summer)

- Employed in Hungary, Austria and Slovenia, overall 7 months experience.
- Manual labour – production
- Logistic activities.
- **Gained skills:** international awareness, production line, practicality, teamwork

ADDITIONAL INFORMATION

- Languages: Hungarian (native), German (basic)
- Clean driving license
- Ski Instructor
- Interests:
 - Football, Skiing, Tennis, Team sports