

OVERVIEW

I have recently graduated with a first class Master's degree in Aerospace Engineering from the University of Surrey. During my time at University I worked on many individual and group projects such as satellite system design, MATLAB modelling, component design and fluids analysis. Most notably, in my final year I worked with a team on designing a more efficient mining haul truck using autonomous driver technology. Within the project, I specialised in calculating the structural dimensions and hydraulics of the truck. I calculated the stress on the chassis and was also in charge of creating the CAD model of the truck. The hydraulics design for the truck consisted of designing the suspension using formulas from a design book. The suspension was optimised for the entire operating weight range of the truck and the results of this were required for the engine and drivetrain design which was handled by civil and mechanical engineers.

During my placement year at Chromalox, in the oil and gas industry, I was part of the internal design team and gained real life experience of what I had previously only experienced in university project team settings. I thoroughly enjoyed the agile way of working and gained insight into the demands and pressures of the business working environment.

WORK

DATA ENGINEER – KUBRICK GROUP, LONDON

March 2017 – present

In addition to intensive learning, whilst at Kubrick I have worked in agile teams on many client projects deepening the skills I have learned.

The Data projects which I have worked on have proven my skills in efficiently engineering very large datasets across a cluster. This has enabled me to deepen my analytical skills, both through data visualisation in Tableau and Plot.ly and through predictive modelling using the Python SkLearn module.

Examples of value I have added to businesses include insight derived from real time streamed social media analytics, as well as predictive insights extracted from client side data warehouses.

DESIGN ENGINEER AND PROJECT MANAGER – CHROMALOX, LONDON

(Professional Placement)

2013 – 2014

At Chromalox, I spent six months in the design team focusing on designing process heaters for offshore oil rigs. I applied the technical skills acquired in my degree and learnt how my role as a design engineer fitted into the project lifecycle. I was also particularly interested in finding out more about how other factors such as cost, quality and regulation impacted the project flow.

I spent a further six months as project manager in the project team overseeing incoming projects from start to finish, learning more about the procurement, budgeting and logistics in delivering a project. I worked closely with other departments in the company and was exposed to commercial aspects such as client documentation, invoicing and customer change requests. In addition, liaising with suppliers and clients on email, telephone and in face to face meetings daily greatly improved my communication skills and confidence.

EDUCATION

MASTER OF AEROSPACE ENGINEERING MENG FIRST CLASS HONOURS, UNIVERSITY OF SURREY 2011 – 2016

Notable modules include:

Numerical Methods (MATLAB) and CFD – 98

Launch Vehicles and Propulsion – 87

Space Systems Design – 90

Advanced Stress Analysis – 94

Turbomachinery and Aircraft Propulsion – 80

KEY SKILLS

I am experienced and qualified in the following technologies and disciplines:

Data Skills:	SQL, Python, Pandas and SciPy, SkLearn, Tableau, Plot.ly, Hadoop, Apache Spark & MongoDB
Security Skills:	Git, Security and Kerberos, SSH & Linux, GDPR
Data Warehousing:	Data Warehousing in T-SQL, Hive & Kimball methodology
SDLC:	Agile, problem solving
Documentation:	LaTeX and Markdown
Soft Skills:	Presentation skills
Specialisms trained in:	Retail, AML, Credit Risk
Certifications:	Cloudera Certified Associate (CCA) Hadoop & Spark Developer



IVAN TCHEYKINE

Data Engineer

ABOUT ME

As a teenager, I worked in a computer shop to gain work experience during school and found myself really interested in building and repairing computers. This interest in technology continued and I thoroughly enjoyed the MATLAB coding modules at university.

I first came across data technologies during my studies when I learned that jet engine health is monitored using sensor data to better predict maintenance requirements as opposed to relying on traditional methods such as engineering expertise. During my research into the field of data I came across other sectors where data analysis has replaced, improved or supported decision making processes – an example is the healthcare industry where health risk factors are now assessed more efficiently and treatments planned more effectively through data analysis.

I find this move towards data driven decision making exciting and am passionate about being able to make a difference.

In my personal life, I am very much into health and fitness. I play football and basketball recreationally, as well as for my university team in the past, and go to the gym. I like learning about nutrition and also practice mindfulness which helps me to both focus and relax through meditation and reading.

CONTACT US

Kubrick Group

T: 020 3866 4620

E: consultants@kubrickgroup.com

W: kubrickgroup.com