

JOHN ADAMSON

Nationality British
Home Address *Available on request*
Telephone *Available on request*
E-Mail enquiries@oxforddynamics.com

SUMMARY

Since graduating from university with an undergraduate degree in Aeronautical Engineering and a masters in Scientific Computation my career has focussed upon the design and implementation of bespoke scientific & engineering software.

After 17 years of engineering and software development many of the problems I am asked to solve tend to be variations of problems I have solved in the past. Consequently, I have also become very interested in the process of development; how it can be improved and streamlined to minimise errors, maximise output, and maintain a high standard of robust, user friendly software/products.

My professional interests include:

- Modern Python programming
- User interface design
- Computational techniques for simulation & optimization
- Predictive models for engineering and finance
- Project management
- Business management

Previous work has covered the topics of:

- Computational fluid dynamics
- Vehicle dynamics
- Race strategy prediction & optimization
- Managing large volumes of live cloud data to mobile devices (for sporting events)
- Engineering process auditing
- Small business operations

I am confident leading teams, mentoring individuals and managing projects from concept to market. I can communicate ideas with clarity and articulate challenging concepts in understandable terms. I am also at ease presenting to, and interacting with clients.

Having worked for many years in the Formula 1 industry I know how to perform under pressure, collaborating as part of a team to produce results by immovable deadlines. I hope that my experience would bring a fresh perspective to the problems your business tackles daily, gaining a competitive advantage in the process.

EMPLOYMENT HISTORY

Head of Software (Aerodynamics)	RenaultSport Racing F1 Team	Mar 16 – current
Principal Engineer (& founder)	Oxford Dynamics	Feb 14 – current Jul 07 – Oct 09
Head of Software Engineering	Wirth Research	Nov 09 – Jan 14
Simulation Developer	Renault F1 Team	Jun 03 – Jun 07
Lead Developer	Honda F1 Team	Oct 01 – Jun 03
Advanced Software Engineer	Altera Corporation	Sep 00 – Oct 01

EDUCATION

MSc Scientific Computation	University of Glasgow	1999-2000
BEng (Hons) Aeronautical Engineering	University of Glasgow	1995-1999

CORE TECHNICAL SKILLS

Highlights:

- 17 years of software development, primarily Python and C++
- Extensive experience of the Qt Development Framework
- Cross platform development including desktop, web, and mobile
- Experience marshalling live data simultaneously to 500k+ mobile devices using Amazon Web Services

Additional skills with the following:

Operating Systems	Linux, Unix, macOS, Windows, Android, iOS
Primary Languages	Python, C++, C
Python Packages	PyQt, Pandas, Numpy, Scipy, Matplotlib, SQLAlchemy, Sympy, Pytest
Misc Languages	HTML, CSS, Javascript, R, Java, Haskell, Fortran
Misc Tools	Cordova, Electron, Matlab
Cloud Computing	Amazon Web Services, Google Cloud Platform
Automation	Gradle, Jenkins, Gitlab CI
General C++ Libraries	Qt, Boost, Loki, DLib
Numerical Libraries	BLAS, LAPACK, MKL, uBlas, Eigen, Armadillo
Databases	MongoDB, Hypertable, MySQL, MariaDB, SQL Server, SQLite
Development Environments	Pycharm, Webstorm, Visual Studio, Emacs, Vi
Source Code Management	Git, SVN, CVS
Graphical Tools	Inkscape, GIMP
Documentation Generators	Doxygen, Sphinx, LaTeX

Referees available on request