

# PROFESSIONAL ISSUES

## Setting the Agenda

MICHAEL FOURMAN

No man is an island...

- The social, economic, moral, and legal frameworks that shape the software ecosystem.
- Architectures, operating systems, programming languages, applications, companies and individuals rise and fall.
- Society guarantees some rights, and imposes many responsibilities and obligations.
- Non-technical forces will play a role in shaping what you can achieve.
- To understand some of these forces may be helpful.

# Government and Law

## 1 LAW AND GOVERNMENT

### 1.1 WHAT IS THE LAW?

### 1.2 CRIMINAL LAW AND CIVIL LAW

### 1.3 WHERE DOES THE LAW COME FROM?

### 1.4 THE LEGISLATIVE PROCESS IN THE UK

### 1.5 THE LEGISLATIVE PROCESS IN OTHER COUNTRIES

### 1.6 THE LAW ACROSS BORDERS

# Computing Profession

## 2 THE COMPUTING PROFESSION

### 2.1 THE CONCEPT OF A PROFESSION

### 2.2 ROYAL CHARTERS

### 2.3 PROFESSIONAL CONDUCT

### 2.4 EDUCATION

### 2.5 THE ADVANCEMENT OF KNOWLEDGE

### 2.6 CONTINUING PROFESSIONAL DEVELOPMENT

### 2.7 REPRESENTING THE PROFESSION

### 2.8 MEMBERSHIP GRADES

### 2.9 RESERVATION OF TITLE AND FUNCTION

# Companies and Organisations

## 3 WHAT IS AN ORGANISATION?

3.1 THE ROLE OF ORGANISATIONS

3.2 COMMERCIAL ORGANISATIONS

3.3 LIMITED COMPANIES

3.4 SETTING UP A COMPANY

3.5 THE CONSTITUTION OF A LIMITED COMPANY

3.6 DIRECTORS

3.7 TAKEOVERS, MERGERS AND OUTSOURCING

3.8 NON-COMMERCIAL BODIES

## 4 STRUCTURE AND MANAGEMENT OF ORGANISATIONS

4.1 ORGANISATIONAL MODELS

4.2 STRUCTURING PRINCIPLES

4.3 DEPTH OF STRUCTURE

4.4 CENTRALISATION

4.5 SETTING UP A STRUCTURE IN PRACTICE

4.6 JOB DESIGN

# Finance Accounting and Investment

## 5 FINANCING A START-UP COMPANY

5.1 WHY CAPITAL IS NEEDED

5.2 THE BUSINESS PLAN

5.3 SOURCES OF FINANCE

5.4 GEARING

## 6 FINANCIAL ACCOUNTING

6.1 DISCLOSURE REQUIREMENTS

6.2 THE BALANCE SHEET

6.3 THE PROFIT AND LOSS ACCOUNT

6.4 THE CASH FLOW STATEMENT

6.5 THE OVERALL PICTURE

## 7 MANAGEMENT ACCOUNTING

7.1 PLANNING AND MANAGEMENT INFORMATION

7.2 BUDGETS AND OVERHEADS

7.3 COST OF LABOUR

7.4 ALLOCATION OF OVERHEADS

7.5 CASH FLOW FORECAST

## 8 INVESTMENT APPRAISAL

8.1 INVESTMENT PROPOSALS

8.2 THE TIME VALUE OF MONEY

8.3 APPLYING DCF TO A SIMPLE INVESTMENT PROJECT

8.4 ASSESSMENT OF A SOFTWARE PRODUCT PROPOSAL

8.5 PITFALLS OF DCF

# Human Resources and Discrimination

## 9 HUMAN RESOURCES ISSUES

9.1 WHAT ARE HUMAN RESOURCES?

9.2 THE LEGAL CONTEXT

9.3 RECRUITMENT AND SELECTION

9.4 STAFF TRAINING AND DEVELOPMENT

9.5 REMUNERATION POLICIES AND JOB EVALUATION

9.6 APPRAISAL SCHEMES

9.7 REDUNDANCY, DISMISSAL AND GRIEVANCE PROCEDURES

9.8 CONTRACTS OF EMPLOYMENT

9.9 HUMAN RESOURCE PLANNING

## 10 ANTI-DISCRIMINATION LEGISLATION

10.1 THE DEVELOPMENT OF ANTI-DISCRIMINATION LEGISLATION

10.2 WHAT IS DISCRIMINATION?

10.3 DISCRIMINATION ON GROUNDS OF SEX

10.4 DISCRIMINATION ON RACIAL GROUNDS

10.5 DISCRIMINATION ON GROUNDS OF DISABILITY

10.6 DISCRIMINATION ON GROUNDS OF AGE

10.7 AVOIDING DISCRIMINATION



# IPR, Software Contracts, Data Protection, Privacy

## 11 INTELLECTUAL PROPERTY RIGHTS

### 11.1 INTELLECTUAL PROPERTY

### 11.2 COPYRIGHT

### 11.3 EXAMPLES OF COPYRIGHT CASES INVOLVING SOFTWARE

### 11.4 CONFIDENTIAL INFORMATION

### 11.5 PATENTS

### 11.6 TRADE MARKS

### 11.7 DOMAIN NAMES

## 12 SOFTWARE CONTRACTS AND LICENCES

### 12.1 WHAT IS A CONTRACT?

### 12.2 LICENCE AGREEMENTS

### 12.3 OUTSOURCING

### 12.4 CONTRACTS FOR BESPOKE SOFTWARE

### 12.5 CONTRACTS FOR CONSULTANCY AND CONTRACT HIRE

### 12.6 LIABILITY FOR DEFECTIVE SOFTWARE

### 12.7 HEALTH AND SAFETY

## 13 DATA PROTECTION, PRIVACY AND FREEDOM OF INFORMATION

### 13.1 BACKGROUND

### 13.2 DATA PROTECTION

### 13.3 PRIVACY

### 13.4 FREEDOM OF INFORMATION

# The Internet, Defamation, Pornography, Spam

## 14 INTERNET ISSUES

### 14.1 THE EFFECTS OF THE INTERNET

### 14.2 INTERNET SERVICE PROVIDERS

### 14.3 THE LAW ACROSS NATIONAL BOUNDARIES

### 14.4 DEFAMATION

### 14.5 PORNOGRAPHY

### 14.6 SPAM

### 14.7 ECOMMERCE REGULATIONS

# Computer Misuse and Fraud

## 15 COMPUTER MISUSE

### 15.1 THE PROBLEM

### 15.2 THE COMPUTER MISUSE ACT 1990

### 15.3 AMENDMENTS TO THE ACT

### 15.4 OPERATION OF THE ACT

### 15.5 COMPUTER FRAUD

## Straw Poll

Government and Law	10
Computing Profession	11
Companies and Organisations	35
Finance Accounting and Investment	32
Human Resources and Discrimination	17
IPR Software Contracts, Data Protection, Privacy	45
The Internet Defamation, Pornography, and Spam	17
Computer Misuse and Fraud	28

# The Startup Manifesto

<http://www.coadec.com/wp-content/uploads/2014/09/Startup-Manifesto.pdf>