



**FOM Hochschule für Oekonomie & Management**

university location Hamburg

**Bachelor Thesis**

in the study course Business Information Systems

to obtain the degree of

**Bachelor of Science (B.Sc.)**

on the subject

**Avoiding Software Decay in Military Software Development**

by

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# 1 Introduction

T This is the Introduction.

## 2 Literature Review

### 2.1 Problems of Software Engineering

Software has become an integral part of our daily lives. Certain expectations are made regarding the quality of software in terms of reliability, security and efficiency. These expectations come with challenges for the software developers across all industries. To efficiently deal with these challenges, software engineers have tried for decades to develop methods and guides to overcome these issues. However in 1986 Frederick Brooks published his paper 'No Silver Bullet'<sup>1</sup> in which he argues that: '... building software will always be hard. There is inherently no silver bullet.'<sup>2</sup>. He based this statement on the fact that there are two types of difficulty in software development: the essential and the accidental. The essential difficulties he names are complexity, conformity, changeability and invisibility. According to Brooks these issues are in 'the very nature of software'<sup>3</sup>. For him these difficulties are unlikely to be solved unlike the accidental difficulties which have been and will be solved by the software engineering community. These accidental difficulties can be, for example, limitations of current tools and methods which can be overcome through time.

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<sup>1</sup> Brooks, 1987.

<sup>2</sup> Ibid., p. 3.

<sup>3</sup> Ibid., p. 2.

## Appendix

### Appendix 1: Beispielanhang

Dieser Abschnitt dient nur dazu zu demonstrieren, wie ein Anhang aufgebaut sein kann.







#### Appendix 1.1: Weitere Gliederungsebene

Auch eine zweite Gliederungsebene ist möglich.

### Appendix 2: Bilder

Auch mit Bildern. Diese tauchen nicht im Abbildungsverzeichnis auf.

**Figure 1: Beispielbild**

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 abbildungen	29.08.2013 01:25	Dateiordner	
 kapitel	29.08.2013 00:55	Dateiordner	
 literatur	31.08.2013 18:17	Dateiordner	
 skripte	01.09.2013 00:10	Dateiordner	
 compile.bat	31.08.2013 20:11	Windows-Batchda...	1 KB
 thesis_main.tex	01.09.2013 00:25	LaTeX Document	5 KB



## **Bibliography**

*Brooks* (1987): No Silver Bullet Essence and Accidents of Software Engineering, in:  
Computer, 20 (1987), Nr. 4, pp. 10–19

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