



Financial & Software Modeling

Experiences by Admin Starcevic

My most significant practical experiences within financial modeling was established during the real estate investment management experiences. I was working in cooperation with private equity professionals in order to develop most precise tools in evaluating inhomogeneous portfolio and financing data for large investment projects involving very large data sets.

My first professional algorithmic modeling experiences happened during my engineering study back in 2000 to 2006. This included vehicle dynamics modeling in Excel and VBA, simulating mechanical differential equations solved by timely based integration, in cooperation with engineers from car maker Ford and Cologne University.

Later, during my MBA study I was often confronted to model financial equations for financial analysis purposes as required for stock valuations based on fundamental analysis. My dissertation project required quantitative analysis of stock prices regarding their serial correlation, runs and seasonal effects used in the process of market efficiency evaluation respectively (price predictability).

Furthermore, I develop diversified algorithmic tools and calculators on a regular basis because programming and software design belongs to my professional hobbies. In this document I have explained numerous modeling experiences in more detail.

- ✓ **Cash Flow Modeling / Forecasting**
- ✓ **Parametric Scenario & Sensitivity Design**
- ✓ **Stochastic Risk Analysis through Probability Profiling**
- ✓ **Application of Investment Valuation Methods such as IRR & NPV**
- ✓ **Advanced Excel Application combined with VBA, Macros, Individual Functions**
- ✓ **Excel Add-Ins with User Interface Design**
- ✓ **Corporate Modeling integrated**
- ✓ **Applied Data Management (.xls, .txt, .csv oder SQL)**
- ✓ **Custom Windows Software Design through individual Programming**
- ✓ **Mechanical Engineering Vehicle Dynamics Simulation (Virtual Car Driver Programming with Mechanical Impact Evaluation)**