Finheim's Guide to Long Term Investing in Stocks

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## Introduction

This book has been written, coded and compiled with the aim of making life easier for the long-term stock investor, as it is easy to get lost in the vast amount of data that countless companies listed on the stock exchanges generate.

Given this problem, I decided to explore the daily stock prices and fundamental data of companies with the aim of looking for profitable and financially healthy companies (although nothing written in this book is an investment recommendation).

As the financial market is in constant flux, this book will be too, which is why I'll be updating this book quite frequently and selected GitHub as the mean of publishing (in programmers' parlance: "committing") it.

I've divided this book into two parts:

Fundamentals, where I explain the fundamentals behind the graphs plotted in this book (I recommend bookmarking this page in some way, as you'll want to return to it often).

List of Companies, which have demonstrated good financial health and positive profitability (once again I reiterate: this book does not work with company recommendations).

If you want to contribute with the project, you can modify and/or improve the source code of the book in Github. Also, you can share and discuss ideas for the project in our Reddit group.

Another thing: When I say "Long-term investment", I mean holding a company in your portfolio for years, not trading methods that promise miraculous high returns in the short term.

## **Fundamentals**

The Internal Rate of Return (IRR) is a way of calculating the profitability of an investment considering contributions and sales of assets of various amounts (in this case, the sale only takes place at the end, and the contributions have constant values more the dividends distributed). We can interpret the IRR as an application of compound interest at more complex situations. In our case, the lump sum contributions plus dividends were calculated for a period of 10 years (or 5 years for newer companies on the stock exchange).

Net Income/Loss represents the company's profitability after deducting all general, financial, depreciation and tax expenses. A company considered profitable for us is a company with increasing profits over the years.

In accounting, **Research and Development** are considered expenses, but for us, it is considered an investment.

When the annual "Expenses" of **R&D** increases, it means that the company is active with innovation and we could expect surprises for the future of the company and a possible increase of the Net income.

The balance sheet of a company financially represents everything that is used in the operation of the company alongside all its financial obligations. To do this, the balance sheet is divided into three main parts: assets, liabilities and shareholders' equity.

Below is a simplified example of a balance sheet:

Assets	Amount
Cash and Cash Equivalents	\$50,000
Accounts Receivable	\$30,000
Inventory	\$20,000
Prepaid Expenses	\$5,000
Total Current Assets	\$105,000
Property, Plant, and Equipment	\$75,000
Intangible Assets	\$15,000
Total Assets	\$195,000

Liabilities	Amount					
Accounts Payable	\$20,000					
Short-Term Loans	\$10,000					
Total Current Liabilities	\$30,000					
Long-Term Loans	\$50,000					
Total Liabilities	\$80,000					

Shareholders' Equity	Amount
Common Stock	\$50,000
Retained Earnings	\$65,000
Total Shareholders' Equity	\$115,000

Assets are all the company's property and rights, such as machinery and cash on hand, whether obtained with third-party capital (Liabilities) or owners' capital (Equity).

Liabilities represent all the company's financial obligations to third parties, such as debts and accounts payable.

If we subtract the assets from the total liabilities, we get the shareholders' equity, which consists mainly of the company's share capital. So, mathematically: Assets = Liabilities + Equity.

If we divide equity by total assets, we find the **Equity Ratio**, a metric that

shows the proportion of total assets that is financed by shareholders' capital. The higher this metric, the less the company depends on third-party capital and/or debt.

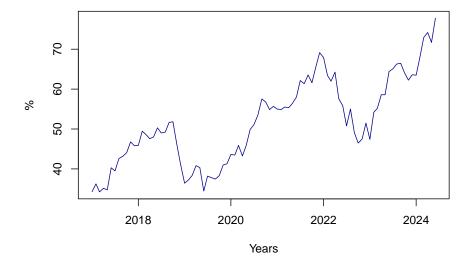
We can also divide assets and liabilities into current (or short-term) assets and liabilities. If we divide current assets by current liabilities, we get the **Current Ratio**, which shows the company's ability to pay its short-term obligations with its short-term assets.

# Companies

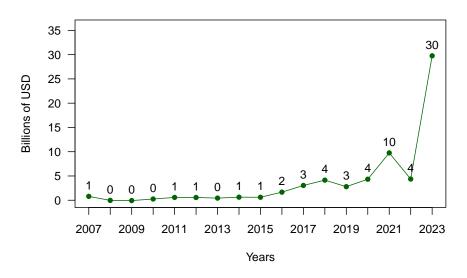
#### 3.1 NVDA

NVIDIA (NVDA), a leading American technology company, creates graphics processing units (GPUs) that power high-performance computing and gaming, along with developing artificial intelligence hardware and software and designing chips for various markets like mobile and automotive industries.

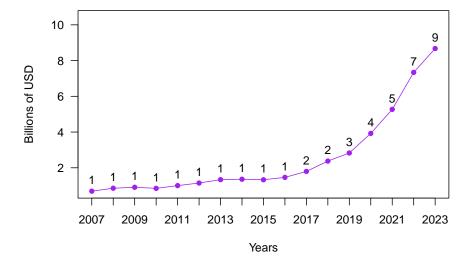
#### **NVDA: Annual IRR for 10 Years Investing**



NVDA: Annual Net Income\Loss

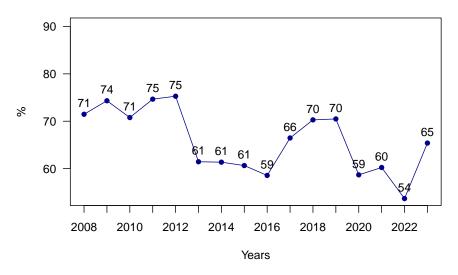


NVDA: Annual R&D "Expenses"

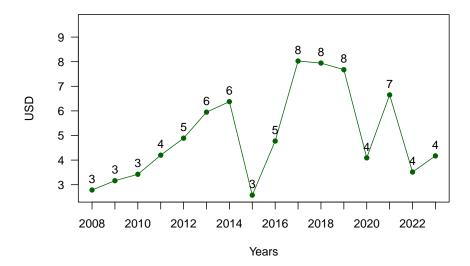


3.2. SMCI 13

**NVDA: Annual Equity Ratio** 



**NVDA: Annual Current Ratio** 

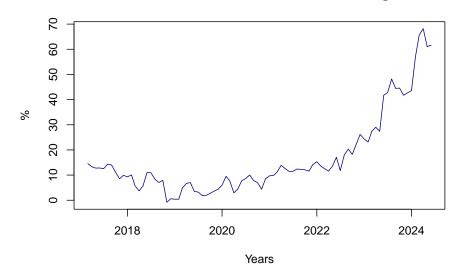


## 3.2 **SMCI**

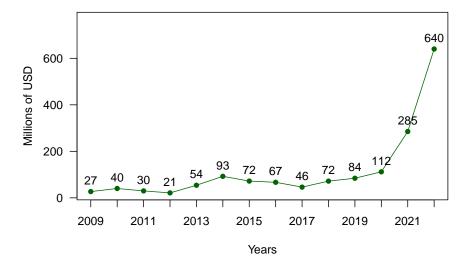
Super Micro Computer Inc. (SMCI): This American company manufactures computer servers, particularly high-performance and energy-efficient ones, for

data centers, enterprise computing, and cloud computing  $\boldsymbol{.}$ 

SMCI: Annual IRR for 10 Years Investing

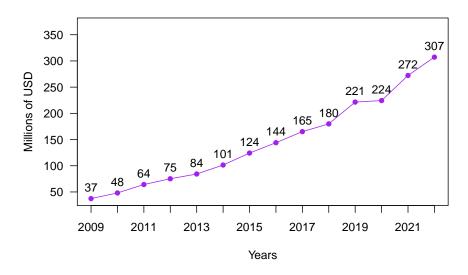


SMCI: Annual Net Income\Loss

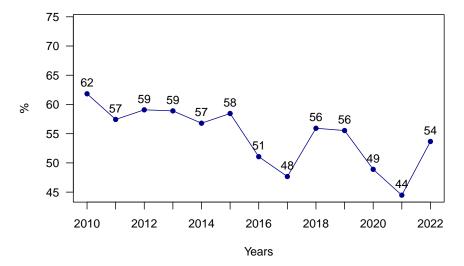


3.2. SMCI 15

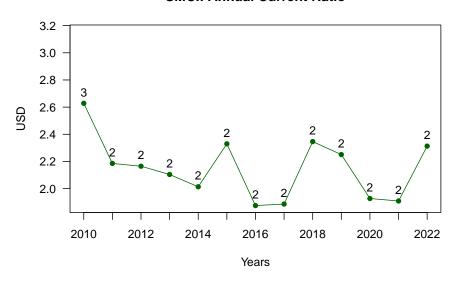
SMCI: Annual R&D "Expenses"



**SMCI: Annual Equity Ratio** 





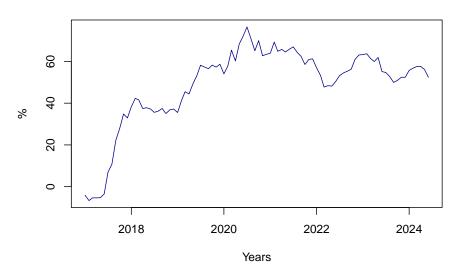


### 3.3 **ZYXI**

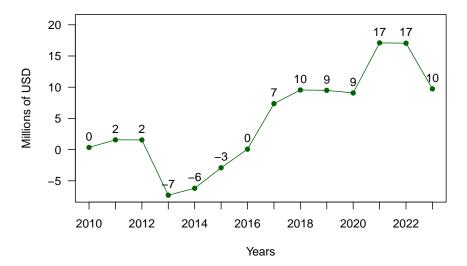
Zynex Medical Inc. (ZYXI): This medical technology company develops and sells non-invasive monitoring and electrotherapy products used for sleep apnea, chronic pain management, and cardiac monitoring .

3.3. *ZYXI* 17

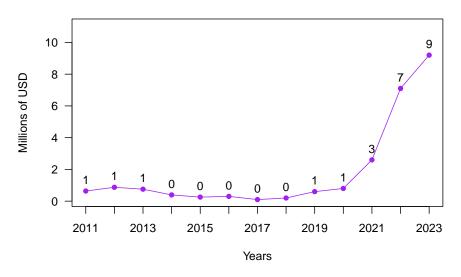
**ZYXI: Annual IRR for 10 Years Investing** 



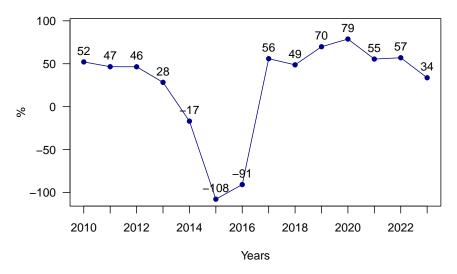
ZYXI: Annual Net Income\Loss



ZYXI: Annual R&D "Expenses"

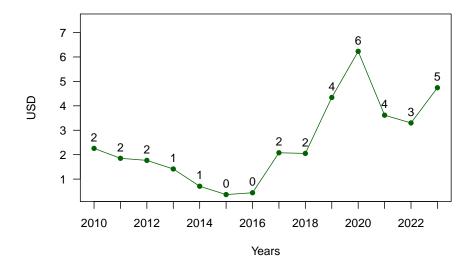


**ZYXI: Annual Equity Ratio** 



3.4. LRCX 19

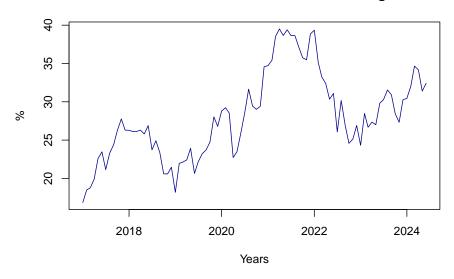
**ZYXI: Annual Current Ratio** 



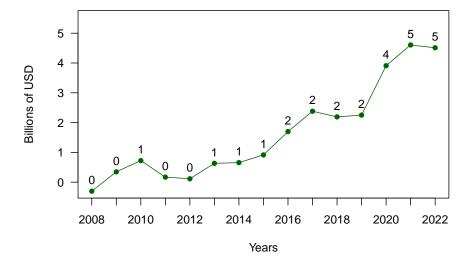
## 3.4 LRCX

Lam Research Corporation (LRCX): This company supplies equipment used in the semiconductor manufacturing process. Their equipment etches patterns onto silicon wafers, a crucial step in creating computer chips .

LRCX: Annual IRR for 10 Years Investing

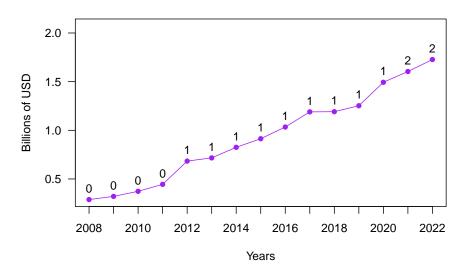


LRCX: Annual Net Income\Loss

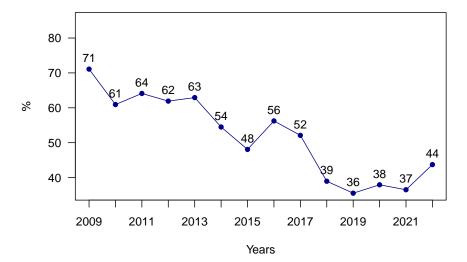


3.4. LRCX 21

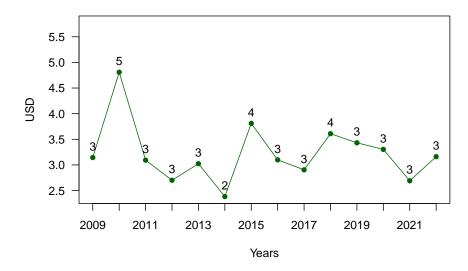
LRCX: Annual R&D "Expenses"



**LRCX: Annual Equity Ratio** 





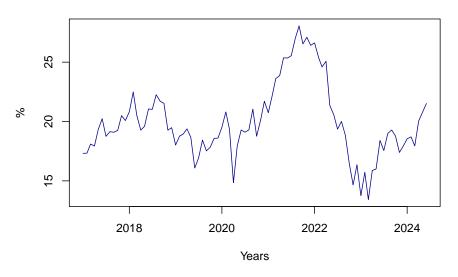


## 3.5 GOOGL

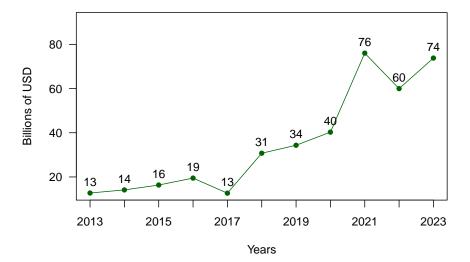
Alphabet Inc. (GOOGL): This is the parent company of Google and several other subsidiaries like YouTube and Fitbit. They specialize in internet-related services and products, including search engines, online advertising, cloud computing, and software .

3.5. *GOOGL* 23

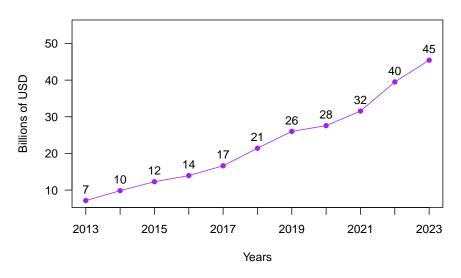
**GOOGL: Annual IRR for 10 Years Investing** 



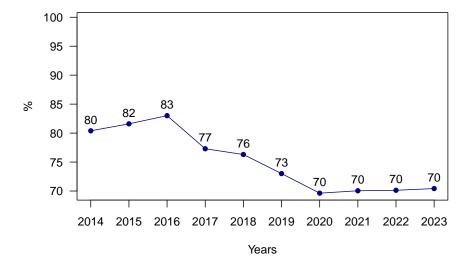
GOOGL: Annual Net Income\Loss



GOOGL: Annual R&D "Expenses"

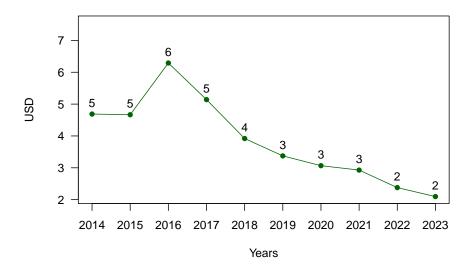


**GOOGL: Annual Equity Ratio** 



3.6. INTU 25

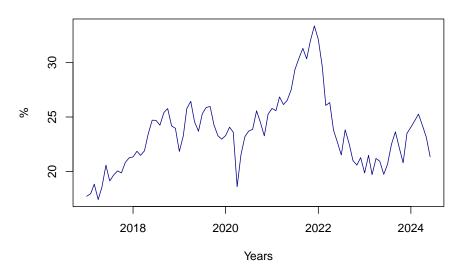
**GOOGL: Annual Current Ratio** 



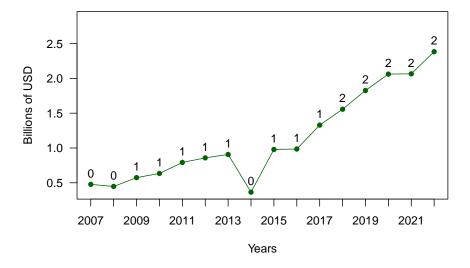
## 3.6 **INTU**

Intuit Inc. (INTU): This company develops financial software, most well-known for their tax preparation software TurboTax and personal finance app  ${\rm Mint}$ .

INTU: Annual IRR for 10 Years Investing

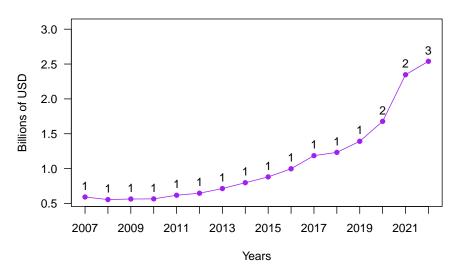


INTU: Annual Net Income\Loss

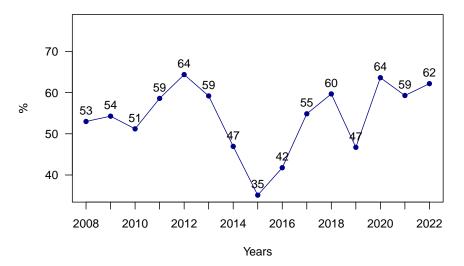


3.6. INTU 27

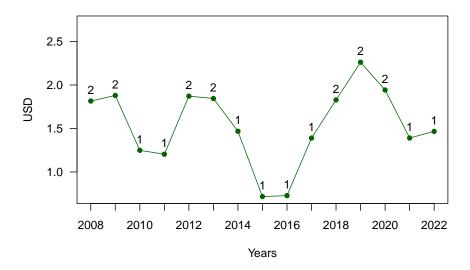
INTU: Annual R&D "Expenses"



**INTU: Annual Equity Ratio** 



**INTU: Annual Current Ratio** 



# IRR Rank

Ticker	Company	Actual IRR (%)
NVDA	NVIDIA CORP	77.76
SMCI	Super Micro Computer, Inc.	61.61
ZYXI	ZYNEX INC	52.41
LRCX	LAM RESEARCH CORP	32.47
GOOGL	Alphabet Inc.	21.49
INTU	INTUIT INC.	21.34