

Engineer Career Development - 懶人包

3 phases of your career development

- 1st 10 years (10k hours): Be an expert in the field (Technical expert)
 - 在你的領域內，你可以完成任何任務(知道怎麼做)
- 2nd 10 years: Lead a team to complete a task (Turn to business)
 - 你只要給我resource，我一定可以找到合適的人，制定合適的plan。Deliver 一個 good product.
- 3rd 10 years: Financial independence
 - 前面做的都是為了這10年
 - 已經無法改變path (choices)，只能順著前面20年的path下去

人生是否幸福的評量標準? ==> 是否任何時候都有很多 **Choices!!**

- 人生變好: 你突然有很多choices (e.g., 可以隨時跳A公司)
 - 人生悲慘: 沒有Choice (e.g., I hope XXX公司不會倒/fire我)
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The 1st 10 years:

- 1st / 2nd years → labor = reward
- reward = level
- level != 年資(e.g., 即使公司每年加薪10%)
- level = capability

Capability:

- Engineer
 - given an API, and an algorithm. make sure the code can be correctly implemented.
- Sr. Engineer: can define API, algorithm, ...
- Manager: manage a product
- Director: product + direction
- VP: Culture

See: <https://www.quora.com/What-is-the-expectation-out-of-each-software-engineering-level-at-Facebook>

任何時候，high level 都要可以cover low level

e.g., 任何team member quit, team lead 都可以把他的東西接起來

GOAL: how do I go to the next stage.

- 跟你學什麼語言，技術, etc.. 沒任何關係
- 大部分人，要結束這10年，大約做到manager / director
- 單純，一步一步走，越快越好。
 - Don't do local optimization (e.g., 爛公司用promotion留住你)
- Unfortunately, 就算這10年順利畢業，你也無法達到3rd 10 years.

The 2nd 10 years:

You need to make the **RIGHT choice** to arrive the 3rd 10 years

→ Startup is the only way to lead you to the 3rd stage!

- 150% efforts
- 10% success rate

The 3rd 10 years:

工人階級 (labor) → 資產階級 (capitalist)

- 收入 != 工作
- 工作只是 for fun / just in case.
- 就算你立刻quit, 你也有一定收入可以活

你此時大概已經40-50歲，你此不會擔心 (這些都可以control)

- 最新的technical 是啥
- product 要怎麼開spec, etc...

你會擔心 (這些你無法control的)

- 你16歲女兒，跟8+9在交往
- 你18歲兒子，不念大學，要去寫詩
- 你父母身體不好, etc...

WTF should we do??

- Investment:
 - list all possible expenses
 - what risk can you take? <http://firecalc.com/>