

# 97 Things Every Engineering Manager Should Know

Being an engineering manager is a challenging and rewarding role.

Engineering managers are responsible for leading and managing teams of engineers, as well as for delivering high-quality software products. In order to be successful, engineering managers need to have a deep understanding of the technical aspects of software development, as well as the people management skills.

In this article, we will discuss 97 things that every engineering manager should know. These tips are divided into the following categories:

- **Technical skills**
  - **People management skills**
  - **Business skills**
1. **Understand the software development lifecycle.**
  2. **Be proficient in at least one programming language.**
  3. **Have a strong understanding of data structures and algorithms.**
  4. **Be familiar with the latest software development tools and technologies.**
  5. **Be able to design and implement software systems.**
  6. **Be able to debug and troubleshoot software problems.**
  7. **Be able to contribute to technical discussions.**

8. **Be able to stay up-to-date on the latest software development trends.**
9. **Be able to learn new technologies quickly.**
10. **Be able to work independently and as part of a team.**
11. **Be able to manage multiple projects simultaneously.**
12. **Be able to prioritize tasks and manage deadlines.**
13. **Be able to communicate technical information clearly and concisely.**
14. **Be able to write technical documentation.**
15. **Be able to present technical information to non-technical audiences.**

1. **Be able to build and maintain high-performing teams.**
2. **Be able to motivate and inspire team members.**
3. **Be able to provide constructive feedback.**
4. **Be able to resolve conflict.**
5. **Be able to create a positive and supportive work environment.**
6. **Be able to manage employee performance.**
7. **Be able to develop and mentor team members.**
8. **Be able to build relationships with other managers and stakeholders.**
9. **Be able to communicate effectively with team members.**

10. **Be able to listen to and understand team members' concerns.**
  11. **Be able to delegate tasks effectively.**
  12. **Be able to hold team members accountable.**
  13. **Be able to create and maintain a culture of trust and respect.**
  14. **Be able to manage remote teams.**
  15. **Be able to handle difficult conversations.**
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1. **Understand the business goals of the organization.**
  2. **Be able to translate business requirements into technical specifications.**
  3. **Be able to estimate the cost and timeline of software projects.**
  4. **Be able to manage a software development budget.**
  5. **Be able to negotiate with vendors and contractors.**
  6. **Be able to market and sell software products.**
  7. **Be able to understand and interpret financial statements.**
  8. **Be able to make sound business decisions.**
  9. **Be able to manage risk.**
  10. **Be able to stay up-to-date on the latest business trends.**
  11. **Be able to communicate effectively with business stakeholders.**
  12. **Be able to build relationships with business partners.**
  13. **Be able to understand the competitive landscape.**

14. **Be able to develop and implement business strategies.**

15. **Be able to manage a business unit.**

Being an engineering manager is a complex and challenging role, but it is also a rewarding one. By mastering the skills outlined in this article, engineering managers can help their teams to deliver high-quality software products and achieve business success.



## 97 Things Every Engineering Manager Should Know: Collective Wisdom from the Experts by Camille Fournier

★★★★☆ 4.3 out of 5

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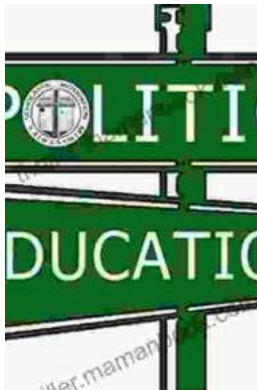
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