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How AI Can Help Engineering and Science Graduates

By Mahesh Ramanujam, FCA · March 19, 2026 · promptedgrad.com/how-ai-helps-engineering-graduates/

Key Points

1

Code generation: GitHub Copilot and Claude write boilerplate code, suggest completions, and explain errors in plain language.

2

Documentation: AI writes technical documentation, README files, and API references from code — saving hours per project.

3

Research: AI summarises academic papers, identifies key findings, and suggests related literature in minutes.

4

Debugging: Paste error messages into Claude or ChatGPT for instant, specific debugging suggestions.

5

Safety-critical warning: Never use AI-generated code in safety-critical systems (medical devices, structural engineering, aerospace) without rigorous independent verification.

6

The engineer who uses AI for routine work and focuses human attention on design decisions and edge cases will outperform those who do not.

Key Takeaway

AI writes the code. The engineer understands why it works — and more importantly, why it might not.

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