

Course Title: Engineering Beyond the Degree: The Real-World Skillset for the 21st Century

📌 Course Objectives:

- To bridge the gap between college education and the real corporate world.
 - To build a full-stack human: technically sound, emotionally intelligent, culturally aware, and communicatively sharp.
 - To train for leadership, productivity, self-mastery, and high-performance engineering mindset.
 - To develop corporate etiquette, communication, and career growth readiness.
 - To practice skills that college *ignores* but companies *value most*.
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📌 Course Syllabus

1. Soft Skills & Corporate World Readiness

- Communication (Oral, Written, Body Language)
- Public Speaking & Presentation
- Teamwork & Collaboration
- Conflict Resolution
- Time Management & Prioritization
- Email Etiquette
- Interview & Resume Mastery

2. Leadership & Work Culture

- Leadership Mindset & Decision Making
- Ethics, Integrity, and Ownership
- Work-Life Balance vs Integration
- Remote work etiquette
- Company culture, Hierarchy, and Politics

3. English & Language Mastery

- Thinking in English
- Advanced Vocabulary for Tech & Business
- Writing Effective Mails, Reports, Proposals
- Storytelling, Metaphors, and Persuasion

4. Technical Habits for Engineers

- Reading RFCs, Docs, & Whitepapers
- Writing clean commit messages, README files
- Research and Technical Paper Writing
- GitHub project hygiene and contribution

5. General Awareness & Staying Updated

- Tech trends, Market Shifts, Startups, Open Source
- Reading articles (HackerNews, Medium, IEEE, Wired)
- Podcasts, YouTube Tech Interviews
- Using AI tools: ChatGPT, GitHub Copilot, Notion AI

6. Productivity and Personal OS

- Note-taking & Zettelkasten Method
- Time Blocking & Focus Sprints
- Digital minimalism
- Tools: Notion, Obsidian, Cron, Sunsama, Motion, Trello, Toggl

7. Critical Thinking & Philosophy

- Learn how to think, question, analyze
- Study logic, biases, systems thinking
- Basic philosophy: stoicism, existentialism, minimalism
- Decision-making models (OODA loop, Eisenhower Matrix)

8. Entrepreneurship & Innovation

- Startups, Pitching, Business Models
- Product Thinking
- Design Thinking

- Financial Literacy & Taxes

9. Books To Read (Life, Leadership, Tech)

- **Atomic Habits** by James Clear
- **Deep Work** by Cal Newport
- **So Good They Can't Ignore You** by Cal Newport
- **The Almanack of Naval Ravikant**
- **The Psychology of Money** by Morgan Housel
- **Rework** by Basecamp Founders
- **Zero to One** by Peter Thiel
- **How to Win Friends & Influence People** by Dale Carnegie
- **The Pragmatic Programmer**
- **Thinking, Fast and Slow** by Daniel Kahneman

📅 Course Roadmap (Tasks + Habits)

📅 WEEK 1–2: Foundation of Soft Skills

- Record 1-minute English videos daily (topic of the day)
- Start Toastmasters-like practice (speak to mirror or peer)
- Learn Email Structure: Greetings, Body, CTA
- Write 1-page journal every night (build language)
- Practice 5 mock HR questions/week

📅 WEEK 3–4: Teamwork & Corporate Exposure

- Join/Lead mini team projects
- Reflect on conflict → resolution scenarios
- Watch mock interviews and decode body language
- Start reading job descriptions & understanding roles

📅 WEEK 5–6: Productivity Systems

- Set up Notion or Obsidian workspace
- Use Pomodoro method + time blocks for focus
- Weekly reflection journal: wins, blockers, fix
- Learn calendar management + email filtering

📅 WEEK 7–8: Industry & Tech Awareness

- Subscribe to **TechCrunch, HackerNews, Ben Eater, Fireship, WSJ Tech**
- Read 3 articles/week & summarize in 5 sentences
- Watch 1 podcast or interview weekly, take notes
- Join 1 open-source/tech Discord or LinkedIn group

📅 WEEK 9–10: Critical Thinking

- Solve 1 "Case Study" (e.g. product improvement) weekly
- Learn fallacies and biases (CrashCourse Philosophy)
- Write an opinion blog (medium.dev.to/notion doc)
- Watch short philosophy summaries (e.g. School of Life)

📅 WEEK 11–12: Leadership Simulation

- Lead a small peer group (even mock)
- Practice decision-making trees on scenarios
- Watch documentaries on great leaders
- Learn Delegation & Conflict Handling

📅 Course Outcomes

- Speak with clarity, confidence, and purpose
 - Write emails, proposals, and documents professionally
 - Navigate team dynamics and lead effectively
 - Stay updated with industry knowledge and tech
 - Build a personal productivity and knowledge system
 - Practice ethical engineering and critical thinking
 - Be a reliable, respected, and future-proof engineer
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☒ Relevant Keywords & Skills

☒ Best YouTube Channels & Resources (Search by Name)

- Ali Abdaal
- Fireship
- CrashCourse Philosophy
- The School of Life
- TechLead
- The Futur
- Ben Eater
- Simon Sinek
- Naval Ravikant Talks
- Cal Newport Interviews
- Y Combinator
- Google Talks
- Stanford eCorner
- TED Talks
- Harvard i-Lab
- MIT OpenCourseWare

Reminder: Nobody's born with these skills. They're built — ruthlessly, step by step. Most engineers rot inside a shell of silence, poor communication, and no leadership. You're choosing not to. That's *everything*.