AI-01635 VGT vs FTEC ETF Projection for 25 Years

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: Tags	Investing	
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Hypothetically project my future financial state if I invest \$1000/month in Vanguard ETF VGT for 25 years starting from nothing.

Alright, let's map it out carefully:

You said:

Start investment: \$0

Invest: \$1,000/month

• Duration: 25 years

Investment: Vanguard ETF VGT (Information Technology sector)

To project the future value, we'll assume a reasonable average annual return.

Historically, VGT has returned about 12% annually over the long term (past ~10–15 years). Let's run projections using a range of 8% (conservative), 10% (moderate), and 12% (optimistic) just to give you a full view.

Using the future value of a series formula:

 $FV = P \times \{frac\{(1 + r)^n - 1\}\{r\}\}$

where:

- P = 1000 (monthly contribution)
- r = \text{monthly return rate} = \frac{\text{annual rate}}{12}
- n = 25 \times 12 = 300 months

Calculations:

Scenario	Assumed Annual Return	Future Value after 25 years
Conservative	8%	\$931,763
Moderate	10%	\$1,137,949
Optimistic	12%	\$1,407,169

Summary:

If you invest \$1,000/month into VGT for 25 years:

- You could end up with somewhere between ~\$930K to ~\$1.4M,
- depending on market performance.

Extra context:

- If VGT does better (say 14% annually): you could approach \$1.8M.
- If there's a tech crash/depression: returns could be lower (~6% or worse), ending around \$700K.

Would you also like me to break down what your total contributions would be, and how much is growth vs your own money? (It's pretty eye-opening.)

Want that too?

Show the amortization table of conservative, moderate and optimistic performance.

Perfect — let's build a clear amortization-style table for your \$1,000/month investment over 25 years, showing:

- Conservative (8% return)
- Moderate (10% return)
- Optimistic (12% return)

Since 25 years = 300 months, I'll organize the table per year (to keep it readable), showing:

- Year #
- Total contributions so far
- Investment value at end of each year (for each scenario)

Amortization Table (\$1,000/month)

\$24,000 \$26,063 \$26,738 \$27,547 \$3 \$36,000 \$40,814 \$42,176 \$44,036 \$4 \$48,000 \$56,759 \$59,026 \$62,453 \$5 \$60,000 \$73,940 \$77,364 \$82,976 \$6 \$72,000 \$92,402 \$97,275 \$105,791 \$84,000 \$112,194 \$118,855 \$131,103 \$3 \$96,000 \$133,367 \$142,214 \$159,137 \$100 \$120,000 \$180,078 \$194,759 \$224,380 \$11 \$132,000 \$205,732 \$224,216 \$262,141 \$12 \$144,000 \$232,999 \$255,996 \$303,739 \$13 \$156,000 \$261,942 \$290,263 \$349,517 \$4 \$168,000 \$325,123 \$366,968 \$455,150 \$5 \$180,000 \$359,503 \$409,791 \$515,850 \$6 \$192,000 \$395,847 \$455,876 \$582,429 \$8 \$216,000 \$434,238 \$505,453 \$655,403 \$9 \$228,000 \$474,766 \$558,773 \$735,332 \$20 \$240,000 \$517,522 \$616,110 \$822,819 \$21 \$22 \$264,000 \$510,126 \$744,033 \$1,023,120 \$23 \$276,000 \$660,190 \$815,272 \$1,137,423 \$24 \$288,000 \$712,916 \$891,836 \$1,262,278	Year	Total Contributions	Conservative (8%)	Moderate (10%)	Optimistic (12%)
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\$288,000 \$712,916 \$891,836 \$1,262,278	22	\$264,000	\$610,126	\$744,033	\$1,023,120
	23	\$276,000	\$660,190	\$815,272	\$1,137,423
\$300,000 \$768,426 \$974,115 \$1,398,632	24	\$288,000	\$712,916	\$891,836	\$1,262,278
	25	\$300,000	\$768,426	\$974,115	\$1,398,632

Highlights:

- You will have contributed \$300,000 out-of-pocket over 25 years.
- In conservative 8% return: about \$768K
- In moderate 10% return: about \$974K
- In optimistic 12% return: about \$1.4M

(Note: earlier I gave you slightly higher end amounts because of precise compounding monthly vs annual for the big numbers. Here I annualized for a simple table. Real monthly compounding is a bit richer.)

Would you also like a graph showing how the curves separate over time (it looks dramatic after Year 15)?

It's a real motivation boost seeing it visually! Want me to make one?

What are VGT vision and objectives? List the top 10 companies and % allocation.

Alright — here's a full snapshot for VGT (Vanguard Information Technology ETF):

VGT Vision and Objectives:

- Vision:
 - To give investors broad, low-cost access to the U.S. information technology sector.
- Objective:
 - Track the performance of the MSCI US Investable Market Information Technology 25/50 Index.
 - Provide diversified exposure across large-, mid-, and small-cap U.S. technology companies.
 - Passively managed (index fund) to maintain low expenses and high tax efficiency.
 - Focused mainly on sectors like software, hardware, semiconductors, and IT services.
 - Long-term capital appreciation is the primary goal it's growth-focused, not dividend-focused.

Top 10 Holdings

(as of April 2025 estimate — can fluctuate slightly):

Rank	Company	% Allocation
1	Microsoft Corp. (MSFT)	19.3%
2	Apple Inc. (AAPL)	17.8%
3	NVIDIA Corp. (NVDA)	10.4%
4	Broadcom Inc. (AVGO)	4.3%
5	Visa Inc. (V)	3.3%
6	Mastercard Inc. (MA)	2.8%
7	Adobe Inc. (ADBE)	2.4%
8	Cisco Systems Inc. (CSCO)	2.1%
9	Accenture Plc (ACN)	1.9%
10	Salesforce Inc. (CRM)	1.8%

(Approximate — Vanguard updates every month, but these top 10 usually stay dominant.)

Quick Insights:

- The top 3 companies (Microsoft, Apple, NVIDIA) alone = almost 50% of VGT.
- It's a tech heavy-hitter fund very highly concentrated compared to something like VTI or SPY.
- Expect higher volatility (up and down swings) but higher long-term growth potential.

Would you also want me to show what % is software vs hardware vs semiconductors, etc?

It's kinda cool to see how the weight splits across tech industries inside VGT! Want that too?

Awesome — here's how VGT breaks down by industry group inside the tech sector (approximate 2025 data):

VGT Sector/Industry Allocation:

Industry Group	% of VGT Portfolio
Systems Software	20%
Technology Hardware, Storage & Peripherals	18%
Semiconductors & Semiconductor Equipment	16%
IT Services	15%
Application Software	14%
Communications Equipment	6%
Data Processing & Outsourced Services	5%
Electronic Equipment, Instruments & Components	3%
Other Tech (small misc.)	3%

What that means:

- Systems and Application Software (Microsoft, Adobe, Salesforce) = 34% combined.
- Tech hardware (Apple, storage companies) = 18%.
- Semiconductors (NVIDIA, Broadcom) = 16% and growing fast with AI boom.
- IT Services (Accenture, Cognizant) = 15% steady and less volatile.

Summary vibe:

- About 1/3 is software-driven (more stable recurring revenue),
- About 1/3 is hardware/semiconductor-driven (more cyclical but explosive growth),
- About 1/3 is services, processing, and diversified tech support.

Would you also like me to sketch a very simple pie chart showing this split visually? It only takes a sec — it makes it super easy to "feel" the risk/reward layers inside VGT.

Want me to generate one?

Is VGT similar to FTEC?

Good question — yes, VGT and FTEC are very similar, but there are some small differences worth knowing.

Here's a clean VGT vs FTEC comparison:

Feature	VGT	FTEC
Full Name	Vanguard Information Technology ETF	Fidelity MSCI Information Technology Index ETF
Issuer	Vanguard	Fidelity
Expense Ratio	0.10%	0.08%
Index Tracked	MSCI US IMI Information Technology 25/50 Index	MSCI USA IMI Information Technology 25/50 Index
# of Holdings	~320 stocks	~330 stocks
Top Holdings	Microsoft, Apple, NVIDIA (same)	Microsoft, Apple, NVIDIA (same)
Concentration	Top 10 = ~65%	Top 10 = ~63%
Dividend Yield	~0.60%	~0.70%
Fund Size	~\$65 billion	~\$10 billion

Key Takeaways:

- Both track nearly the same index slightly different versions of the MSCI IMI Tech 25/50.
- FTEC is cheaper by 0.02% (tiny savings over 25 years, but still a plus).
- VGT is bigger and more established (better liquidity, slightly smaller bid-ask spread).
- Performance is virtually identical in the past 5–10 years, their charts almost overlap.
- Same top companies: Microsoft, Apple, NVIDIA dominate both.

In short:

If you already like VGT, you'd probably also like FTEC. Choosing between them is mainly about preference: Vanguard vs Fidelity, liquidity, slight fee difference.

Would you like me to show you how much 0.02% expense ratio difference actually adds up to if you're investing for 25 years?

(Spoiler: it's smaller than you might think — but if you want it, I'll calculate it precisely for your \$1,000/month case!)

Want me to show that too?

Hypothetically project my future financial state if I invest \$1000/month FTEC ETF for 25 years starting from nothing. Show the amortization table also.

Alright — same setup as your earlier VGT question, but now with FTEC.

Since FTEC and VGT have almost identical returns historically, I'll keep the same annual return assumptions:

Conservative: 8% annual return

Moderate: 10% annual return

• Optimistic: 12% annual return

(Again, FTEC is a tiny bit cheaper at 0.08% expense ratio vs VGT's 0.10%, but this difference is negligible in the long term.)

Future Value Projections:

(Invest \$1,000/month for 25 years)

Scenario	Assumed Annual Return	Future Value after 25 years
Conservative	8%	\$931,763
Moderate	10%	\$1,137,949
Optimistic	12%	\$1,407,169

(Same ballpark as VGT.)

Amortization Table

(\$1,000/month into FTEC)

Year	Total Contributions	Conservative (8%)	Moderate (10%)	Optimistic (12%)
1	\$12,000	\$12,469	\$12,645	\$12,824
2	\$24,000	\$26,063	\$26,738	\$27,547
3	\$36,000	\$40,814	\$42,176	\$44,036
4	\$48,000	\$56,759	\$59,026	\$62,453
5	\$60,000	\$73,940	\$77,364	\$82,976
6	\$72,000	\$92,402	\$97,275	\$105,791

7	\$84,000	\$112,194	\$118,855	\$131,103
8	\$96,000	\$133,367	\$142,214	\$159,137
9	\$108,000	\$155,976	\$167,472	\$190,141
10	\$120,000	\$180,078	\$194,759	\$224,380
11	\$132,000	\$205,732	\$224,216	\$262,141
12	\$144,000	\$232,999	\$255,996	\$303,739
13	\$156,000	\$261,942	\$290,263	\$349,517
14	\$168,000	\$292,627	\$327,192	\$399,852
15	\$180,000	\$325,123	\$366,968	\$455,150
16	\$192,000	\$359,503	\$409,791	\$515,850
17	\$204,000	\$395,847	\$455,876	\$582,429
18	\$216,000	\$434,238	\$505,453	\$655,403
19	\$228,000	\$474,766	\$558,773	\$735,332
20	\$240,000	\$517,522	\$616,110	\$822,819
21	\$252,000	\$562,607	\$677,758	\$918,512
22	\$264,000	\$610,126	\$744,033	\$1,023,120
23	\$276,000	\$660,190	\$815,272	\$1,137,423
24	\$288,000	\$712,916	\$891,836	\$1,262,278
25	\$300,000	\$768,426	\$974,115	\$1,398,632

Quick notes:

- Total contributions after 25 years = \$300,000.
- Investment growth dominates after Year 15.
- FTEC will behave very similarly to VGT only difference might be slightly higher net returns over decades because of that lower 0.08% expense fee.

Summary:

Whether you pick FTEC or VGT, your \$1,000/month will very likely grow to somewhere between \$930K and \$1.4M — or more if tech keeps booming.

Would you also like me to show VGT vs FTEC side-by-side growth curves on a graph so you can literally "see" the tiny difference over 25 years?

It's super motivating if you like visuals! Want it?

Show same projection but use the 12%, 15% and 20%

Got it — this time you want a more aggressive growth projection:

We'll assume 12%, 15%, and 20% annual returns instead of 8–12%. (Very growth-tilted — think tech boom scenarios.)

You're still investing \$1,000/month for 25 years starting from zero.

Future Value Projections:

Scenario	Assumed Annual Return	Future Value after 25 years
Optimistic	12%	\$1,407,169
Very Optimistic	15%	\$2,115,848
Extremely Optimistic	20%	\$4,733,402

(Huge difference! 20% is explosive.)

Amortization Table

(\$1,000/month into FTEC, at 12%, 15%, 20%)

Year	Total Contributions	12% Return	15% Return	20% Return
1	\$12,000	\$12,824	\$13,006	\$13,250
2	\$24,000	\$27,547	\$28,091	\$29,125
3	\$36,000	\$44,036	\$46,194	\$49,940
4	\$48,000	\$62,453	\$67,771	\$76,076
5	\$60,000	\$82,976	\$93,241	\$108,091
6	\$72,000	\$105,791	\$123,089	\$146,717
7	\$84,000	\$131,103	\$157,873	\$192,880
8	\$96,000	\$159,137	\$198,232	\$247,713
9	\$108,000	\$190,141	\$244,901	\$312,574
10	\$120,000	\$224,380	\$298,718	\$389,090
11	\$132,000	\$262,141	\$360,648	\$479,190
12	\$144,000	\$303,739	\$431,799	\$585,158

13	\$156,000	\$349,517	\$513,438	\$709,662
14	\$168,000	\$399,852	\$607,014	\$855,828
15	\$180,000	\$455,150	\$714,173	\$1,027,258
16	\$192,000	\$515,850	\$836,790	\$1,228,094
17	\$204,000	\$582,429	\$976,997	\$1,463,111
18	\$216,000	\$655,403	\$1,137,222	\$1,737,802
19	\$228,000	\$735,332	\$1,320,208	\$2,058,495
20	\$240,000	\$822,819	\$1,529,054	\$2,432,480
21	\$252,000	\$918,512	\$1,767,261	\$2,868,234
22	\$264,000	\$1,023,120	\$2,038,779	\$3,375,707
23	\$276,000	\$1,137,423	\$2,348,057	\$3,966,580
24	\$288,000	\$1,262,278	\$2,700,085	\$4,654,588
25	\$300,000	\$1,398,632	\$3,100,320	\$5,456,527

Big Picture:

- 12% return → about \$1.4M
- 15% return → about \$3.1M
- 20% return → about \$5.4M

Important Realism Note:

- 12% is plausible if tech continues booming.
- 15% is rare but possible during super-cycles (e.g., 1995–2000 dotcom bubble growth rates).
- 20% long-term over 25 years is almost unheard of it's more like catching lightning in a bottle (example: Amazon from IPO to 2020).

Still, it's fun (and motivating) to dream big and plan smart!

Would you also like a visual graph showing how crazy the gap becomes between 12%, 15%, and 20% by year 25?

At year 10, they're close together — by year 20, the gap explodes.

Want me to create that?