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Nasdaq

Hey ChatGPT – How Can I Hedge My Portfolio?

Kevin Davitt

Head of Index Options Content Nasdaq

Jeff Corrado

Director of Options Volos

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Hey GPT – How can I hedge my portfolio?

Kevin Davitt Nasdaq Head of Index Options Content

Jeffrey Corrado Volos Software Director of Operations





About Volos

- Volos was founded in 2014 as a software company aspiring to provide greater transparency and tooling around options trade structuring and systematic options strategies.
- Volos identified the opportunity to develop a robust options strategy development engine and became an index provider in 2019.
 - Index provider of 6 ETFs (2 additional going live in 4Q) across 3 ETF issuers.
- In 2022, Volos exposure their strategy development engine as a no-code solution.
- Recently launched AI functionality that combines GPT and Volos' engine to streamline
 the development of options strategies using our tool and educate users on how to create
 strategies using Volos.
- In the process of developing a Lite version of Volos for retail investors and advisors to more easily develop, test, and implement options strategies.





About Jeff Corrado

- Board Member (2015) and Director of Operation at Volos (operational since 2018).
 - Works directly with asset managers and options practitioners to design ETF strategies and custom solutions for clients.
- Specializes in key market areas such as small cap stocks, options & volatility strategies, AI/Machine Learning, and Alt Data.
 - Passionate about the transformation and analysis of unconventional data types to create novel alpha sources in the market.
- Currently working to develop Al-driven investment strategies for the retail investor and RIA community.



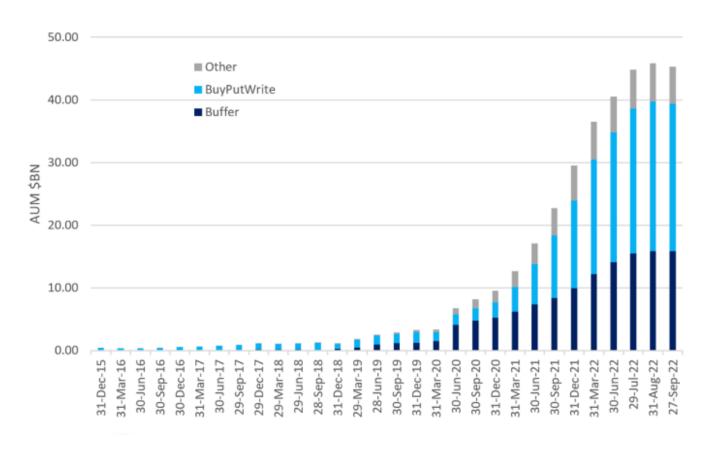
Predicting volatility in the Nasdaq-100 using tone of voice (Nasdaq.com)





Options-based strategies are becoming mainstream

Option-Based ETF AUM Growth







Software Demo





Case Study: Creating AI factor exposure using options for different investment objectives





Study Overview

- Volos built and analyzed a set of strategies combining index options and Semiconductor ETF options to achieve different investment objectives
- Given Semiconductor ETFs contains a large constituent weighting of GPU providers, chips essential to the ongoing computational power that enables AI, Volos sought to develop strategies that provide AI factor exposure.
- Volos focused on three primary investment objectives income generation, upside exposure, and downside protection.
- The inclusion of index options allows for a cost and risk effective expression of an Al factor exposure.





Income

Reinvestment Percentage=25 Semiconductor Income w/ NDX 95% Hedge

Start Date: 2017-12-29 Initial Value: 100 Framework: Volos Strategy Engine

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Group A, Leg 1: NDX Long Put. 95% Moneyness. 3 month Target Expiration. Roll every 3 months. Mar Series. 25% Leg Premium.

Group B, Leg 2: SEMI ETF Short Put. 100% Moneyness. 3 month Target Expiration. Roll every 3 months. Mar Series. 100% Target Exposure.

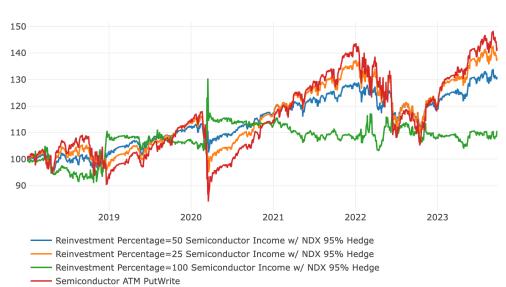


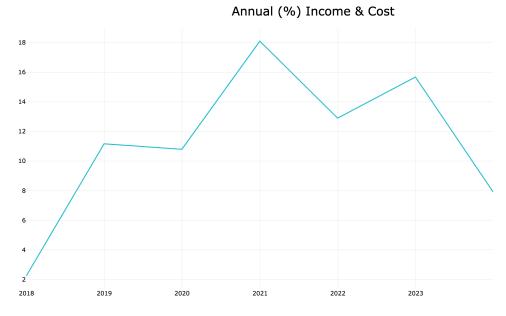


Income

Reinvestment Percentage=50 Semiconductor Income w/ NDX 95% Hedge

Total Returns





Name	Cumulative Returns	Annual Returns	Annual Volatility	Ret/Risk ↓	Max Drawdown
Reinvestment Percentage=50 Semiconductor Income w/ NDX 95% Hedge	30.86%	4.81%	9.89%	0.49	-13.78%
Reinvestment Percentage=25 Semiconductor Income w/ NDX 95% Hedge	38.08%	5.8%	12.71%	0.46	-19.92%
Semiconductor ATM PutWrite	42.11%	6.33%	19.7%	0.32	-28.93%
Reinvestment Percentage=100 Semiconductor Income w/ NDX 95% Hedge	10.14%	1.7%	17.78%	0.1	-20.95%

Disclaimer: Any trading symbols displayed are for illustrative purposes only and are not intended to portray recommendations. Past performance is not necessarily indicative of future results.





Upside Exposure

Semiconductor Upside (Funded by NDX ATM PW)

Start Date: 2017-12-29 Initial Value: 100 Framework: Volos Strategy Engine

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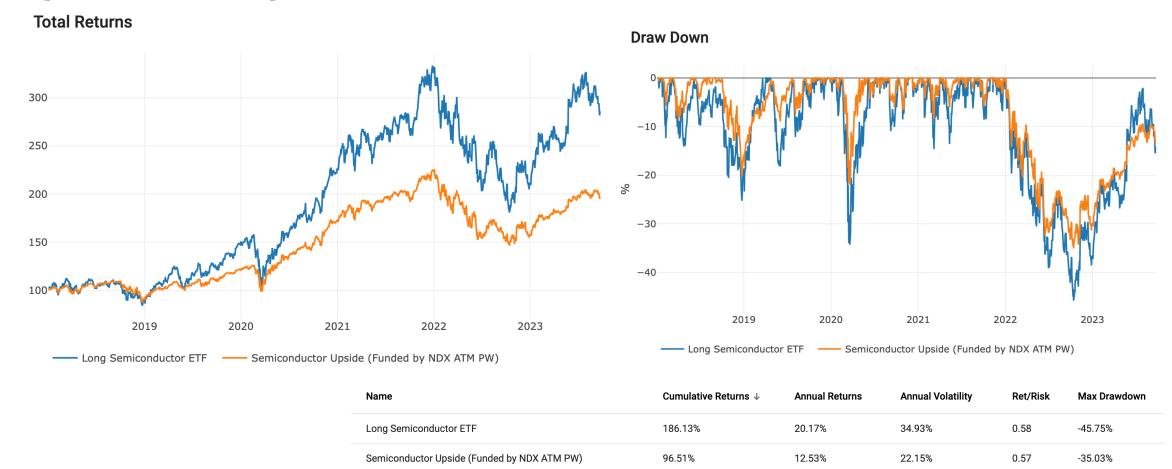
Group A, Leg 1: NDX Short Put. 100% Moneyness. 3 month Target Expiration. Roll every 3 months. Mar Series. 100% Target Exposure.

Group B, Leg 2: SEMIETF Long Call. 100% Moneyness. 6 month Target Expiration. Roll every 3 months. Mar Series. 100% Leg Premium.





Upside Exposure



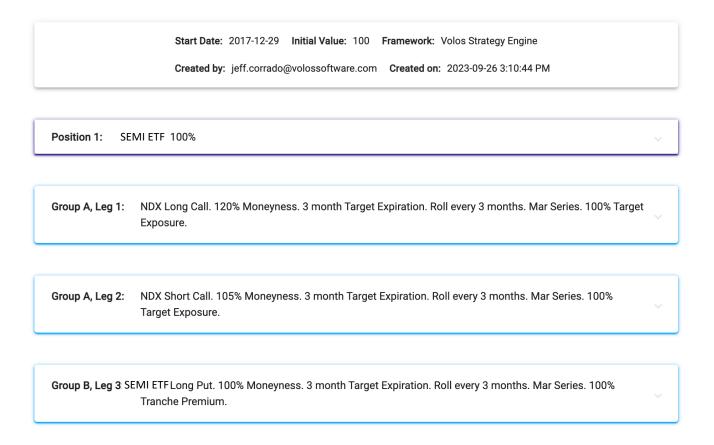
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Downside Protection

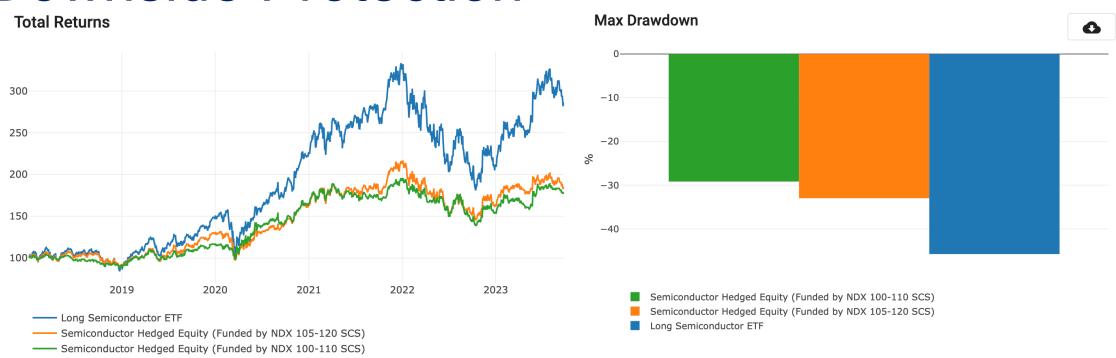
Semiconductor Hedged Equity (Funded by NDX 105-120 SCS)







Downside Protection



Name	Cumulative Returns	Annual Returns	Annual Volatility	Ret/Risk	Max Drawdown ↓
Semiconductor Hedged Equity (Funded by NDX 100-110 SCS)	78.33%	10.64%	21.61%	0.49	-29.18%
Semiconductor Hedged Equity (Funded by NDX 105-120 SCS)	84.86%	11.34%	26%	0.44	-32.98%
Long Semiconductor ETF	186.13%	20.17%	34.93%	0.58	-45.75%

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Kevin's Turn / Q&A





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