

# PROVISIONAL APPLICATION FOR PATENT COVER SHEET

USPTO Form PTO/SB/16 Equivalent

## APPLICATION DATA

Field	Value
Application Type	Provisional Application for Patent
Title of Invention	Systems and Methods for Closed-Loop Optimization of Hybrid and Under-Specified Compute Architectures with Language Model-Driven Search Space Shaping
Attorney Docket Number	KK-2025-PROV-002
Express Mail Label No.	N/A (Electronic Filing)

## PRIORITY CLAIM

Field	Value
Prior Application No.	63/927,859
Prior Application Filing Date	November 30, 2025

Field	Value
<b>Prior Application Title</b>	Systems and Methods for Grammar-Constrained Code Generation and Execution on Resource-Limited Embedded Devices
<b>Priority Claim Type</b>	Claims benefit under 35 U.S.C. §119(e)

## INVENTOR(S)

### Inventor 1 (Primary)

Field	Value
<b>Legal Name</b>	Haim David Silver
<b>Residence (City, State, Country)</b>	Poughkeepsie, NY, USA
<b>Mailing Address</b>	7 Bancroft Rd
<b>City</b>	Poughkeepsie
<b>State</b>	NY
<b>ZIP Code</b>	12601
<b>Country</b>	USA
<b>Citizenship</b>	United States

## CORRESPONDENCE ADDRESS

Field	Value
<b>Name</b>	Haim David Silver

Field	Value
Company	Kernel Keys LLC
Address	7 Bancroft Rd
City	Poughkeepsie
State	NY
ZIP Code	12601
Country	USA
Telephone	+1-929-782-2060
Email	silverdavi@gmail.com

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## APPLICATION FILING FEE

Fee Type	Entity Status	Amount
Provisional Filing Fee	Small Entity	\$160
Provisional Filing Fee	Micro Entity	\$80

**Claimed Entity Status:** ☒ Small Entity (fewer than 500 employees)

**Qualification:** *Kernel Keys LLC qualifies as a Small Entity under 37 CFR 1.27 — the company has fewer than 500 employees and has not assigned, granted, conveyed, or licensed rights in the invention to any entity that would not qualify as a small entity.*

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## DOCUMENTS INCLUDED

Document	Pages	Included
Specification	~15	<input checked="" type="checkbox"/>
Claims (informal/claim-like language)	~6	<input checked="" type="checkbox"/>
Drawings (6 figures)	6	<input checked="" type="checkbox"/>
Cover Sheet (this document)	1	<input checked="" type="checkbox"/>
Application Data Sheet (ADS)	—	<input type="checkbox"/> Optional for provisional

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## DECLARATION

This provisional application is being filed by the inventor(s) named above. The inventor(s) believe they are the original inventor(s) of the subject matter claimed.

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## SIGNATURE

Field	Value
Signature	/Haim David Silver/
Name	Haim David Silver
Date	_____
Registration No.	N/A (Pro Se Filing)

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## FILING INSTRUCTIONS

### USPTO Patent Center Filing Steps:

1. Go to <https://patentcenter.uspto.gov>
2. Create account or log in
3. Select "New Submission" → "Provisional Application"
4. Upload:
  5. This cover sheet (PDF)
  6. Specification document (PDF)
  7. Drawings (PDF) — when ready
8. Pay filing fee (\$160 small entity)
9. Receive confirmation and Application Number

### Important Dates:

Event	Date
Filing Date	[To be assigned]
Priority Date Established	Same as filing date
12-Month Deadline	File non-provisional or PCT within 12 months to claim priority

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## NOTES

- Provisional applications are NOT examined
- No claims required, but claim-like language strengthens priority support
- 12-month pendency — must file non-provisional to proceed to examination
- SBIR/STTR: Filing provisional before Phase I award demonstrates IP ownership
- This application extends and builds upon KK-2025-PROV-001 (GC-SLM patent)

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*Generated: December 2025*

*Docket: KK-2025-PROV-002*