An Insight into Exploring Julia/AI/Enzyme/LLVM/Differentiable Quantum Programming For Testing QRNG +Smart Devices + IoT Informatics + HPC Systems so as to understand : What's the Embedded Systems AI Story w.r.t Julia Programming Language & its Related Software Tools ?

Nirmal - Informatics R&D - USA/UK/France/Germany/Israel/BRICS Group of Nations.
Independent Consultant - Informatics/AI/Photonics/Imaging/HPC Systems.
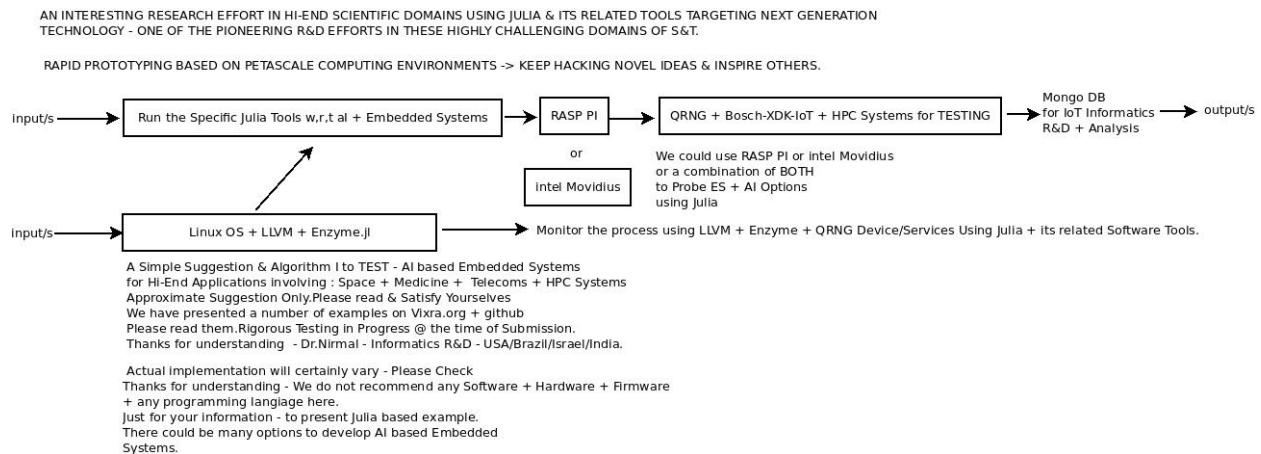Current Member - ante Inst UTD Dallas TX USA.
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[I] Main Idea + Inspiration + Introduction :

A Suggestion to TEST AI based Embedded Systems for Deriving/Driving Next Generation Technology R&D in Space + Medicine + Telecoms + HPC Systems Domains.

[II] R&D Informatics Framework to TEST Embedded Systems + AI w.r.t Julia & its Tools :

AN INTERESTING RESEARCH EFFORT IN HI-END SCIENTIFIC DOMAINS USING JULIA & ITS RELATED TOOLS TARGETING NEXT GENERATION TECHNOLOGY - ONE OF THE PIONEERING R&D EFFORTS IN THESE HIGHLY CHALLENGING DOMAINS OF S&T.

RAPID PROTOTYPING BASED ON PETASCALE COMPUTING ENVIRONMENTS -> KEEP HACKING NOVEL IDEAS & INSPIRE OTHERS.

[Figure I - Algorithm I - Advanced Julia based AI+Embedded Systems Informatics Framework as TESTBED]

[III] Important & Useful References :

[a] https://github.com/tejdnk-2019-ShortNotes - lot of examples for your information with different programming languages.

[b] https://www.vixra.org/abs/1910.0163 - Julia && [c] https://www.vixra.org/abs/1907.0201 - Julia based Scientific Computing.

[d] https://vixra.org/pdf/1908.0073v1.pdf - Julia based Scientific Computing + Information Processing.

[e] https://julialang.org/ && [f] https://github.com/Julia-Embedded && [g] https://dspace.mit.edu/handle/1721.1/110125

[h] https://github.com/wsmoses/Enzyme.jl && [i] https://julialang.org/blog/2019/12/yao-differentiable-quantum-programming/

[j] https://www.idquantique.com/random-number-generation/overview/ - QRNG *

[IV] Acknowledgment/s :

Sincere Thanks to all WHO made this happen in my LIFE.Non-Profit R&D.Inspire Others Always.

[V] Conclusion/s + Future Perspectives :

One of the pioneering & State of the art Technical Communications in this highly challenging Domain of Science & Technology w.r.t Space + Medicine + Telecoms + HPC Heterogeneous Systems R&D.We hope to see more papers in this line targeting -> AI based Embedded Systems Using Julia a proven language for PETASCALE Computing developed @ MIT CAMBRIDGE MA USA.Isn't this wonderful to start with for developing next generation technologies ? Yes it is. So,What are you waiting for ? -> Please start probing AI based Embedded Systems w.r.t Julia.Let us inspire & invent novel ideas.

Thanks for reading our Short Technical Notes.

[THE END]