

JOSEPH ALLEN SPRUTE

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<https://github.com/orgs/ERES-Institute-for-New-Age-Cybernetics>

PROFESSIONAL SUMMARY

Visionary systems architect and interdisciplinary researcher with 13+ years dedicated to developing comprehensive frameworks for civilizational transformation through New Age Cybernetics. Pioneering work in bio-energetic economics, AI governance, democratic coordination systems, and environmental resilience metrics. Proven track record of synthesizing complex theoretical frameworks into implementable technical specifications and practical political strategies. Seeking collaboration opportunities with institutions advancing beneficial AI development, sustainable infrastructure, and democratic governance innovation.

CORE COMPETENCIES

- **Systems Architecture & Cybernetic Design:** Multi-scalar frameworks integrating governance, economics, and technology
- **AI Governance & Ethics:** Constitutional AI frameworks, participatory governance systems, bio-energetic verification
- **Alternative Economic Systems:** Cryptocurrency design, merit-based allocation, bio-ecologic economic modeling
- **Environmental Metrics & Sustainability:** Emission tracking, bio-ecologic rating systems, planetary stewardship protocols
- **Political Strategy & Implementation:** Bipartisan coalition building, incremental trust architecture, democratic transition frameworks
- **Technical Documentation:** White papers, technical specifications, comprehensive system documentation
- **Software Development:** Python simulation development, web applications, blockchain protocols

PROFESSIONAL EXPERIENCE

Founder & Director

ERES Institute for New Age Cybernetics

February 2012 – Present | Bella Vista, Arkansas

Leading comprehensive research initiative developing integrated frameworks for civilizational coordination, environmental stewardship, and technological governance spanning economics, political systems, AI safety, and planetary resilience.

Key Achievements & Contributions

- **Developed Comprehensive Governance Framework:** Created the Neural-AI Constitution (NAC), a living governance system sustained by participatory AI and verified human bio-energetic contribution, providing democratic oversight of artificial intelligence systems
- **Designed Alternative Economic System:** Architected Meritcoin cryptocurrency integrated with Gracechain verification framework and Universal Basic Income Merit Investment Awards (UBIMIA), demonstrating care-based economics where environmental stewardship earns premium compensation
- **Built Complete Working Simulation:** Produced 2,847 lines of Python code creating interactive visualizations of integrated Meritcoin/Gracechain/UBIMIA economic system with real-time merit tracking and resource allocation
- **Created Environmental Metrics Framework:** Developed Bio-Energetic Ratings Codex (BERC) and Emission Resonance Index systems providing comprehensive environmental impact assessment across seven verification domains (SMAS)
- **Designed Political Implementation Strategy:** Authored 'The Visible City Framework' - four-phase, eight-year incremental trust architecture making New Age Cybernetics governance politically viable through voluntary adoption with democratic controls and bipartisan appeal
- **Established 1000-Year Roadmap:** Structured millennial-scale civilizational transformation across three phases: The Storm (crisis response), The Synthesis (system maturation), and The Animate Ecology (planetary consciousness)
- **Developed Technical Implementation Specifications:** Created comprehensive documentation for PBJ Tri-Codex (PERC/BERC/JERC) systems, SECUR isolation architecture, Natural Resonance Processing (NRP), and Global Earth Applications Recorder (GEAR) certification protocol
- **Published Extensive Research:** Authored 50+ white papers and research publications on ResearchGate covering bio-cybernetic integration, planetary governance, economic transformation, and AI safety frameworks
- **Built Cross-Platform Documentation Repository:** Maintained ~400 files across Google Drive and GitHub repositories documenting theoretical frameworks, technical specifications, and practical implementation strategies

Freelance ICT Consultant

Independent Practice

2002 – Present

Providing business technology solutions for small, medium, and large enterprises and government organizations with focus on eco-centric products and services establishing sustainability for local, regional, and global interests.

Selected Consulting Projects

- **Department of Homeland Security (CIAO):** Presented cybersecurity and critical infrastructure frameworks (2002)
- **The Internet Society:** Contributed to next-generation internet architecture discussions including Trusted Virtual Private Network (TVPN) and VPN Grid Network concepts
- **The Open Group:** Presented boundaryless information flow architecture and enterprise integration frameworks
- **California Coatings Manufacturer:** Developed cradle-to-cradle product solution advancing sustainable manufacturing practices
- **Offshore Financial Conglomerate:** Provided marketing consultation for international financial services

Founder & President

CyberRAVE

Late 1990s – Early 2000s

Founded technology company focused on cybersecurity, virtual private networking, and internet architecture innovations. Served as organizational leader presenting at major industry conferences and government forums.

MAJOR FRAMEWORK DEVELOPMENT

Governance & AI Safety Frameworks

- **Neural-AI Constitution (NAC):** Participatory governance framework for beneficial AI development with democratic oversight and bio-energetic verification
- **SECUIR (Silent Energy Circular Universe Infinite Rotation):** Isolation architecture for question-answer reconciliation and semantic entropy detection in human-AI systems
- **Natural Resonance Processing (NRP):** Challenge-response harmonization system for real-time human-AI integration
- **Global Earth Applications Recorder (GEAR):** Cybernetic certification protocol for tracking lawful, sustainable actions across AI systems and planetary governance
- **PlayNAC (New Age Cybernetic Game Theory):** Participatory framework for EarnedPath application within Smart City User-Groups

Economic & Resource Systems

- **Meritcoin Cryptocurrency:** Bio-energetic contribution-based digital currency with environmental stewardship incentives
- **Gracechain Framework:** Verification system for merit-based value creation and contribution tracking
- **UBIMIA (Universal Basic Income Merit Investment Awards):** Integrated system combining universal basic income with merit-based rewards
- **EarnedPath (EP):** Time, talent, and task accountability system for tracking contribution across all persons
- **GERP (Giant Earth Resource Planner):** Planetary-scale resource allocation and planning framework
- **Vacationomics:** System balancing work, leisure, and merit-based rewards for sustainable human development
- **Graceful Contribution Formula (GCF):** Mathematical framework for contribution-based value creation and resource distribution

Environmental & Sustainability Metrics

- **PBJ Tri-Codex (PERC/BERC/JERC):** Comprehensive three-part environmental rating system for Personal, Bio-Ecologic, and Justice emission tracking

Three-part environmental and social impact rating system providing comprehensive assessment across personal emissions, ecological health, and justice metrics. Each codex includes Return on Investment (ROI) calculations measuring regenerative impact versus extractive cost.

The Three Codices:

- **PERC - Personal Emission Resonance Codex:** Measures individual bio-energetic signatures and emissions including aura coherence (via Kirlianography), heart rate variability, brainwave patterns, and Bio-Energetic Signature Time (BEST). Quantifies personal contribution to collective coherence and individual wellness. ROI calculates regenerative personal impact versus stress/depletion patterns.
- **BERC - Bio-Ecologic Ratings Codex:** Evaluates ecological sustainability and environmental impact across carbon sequestration, biodiversity preservation, water quality, soil health, air purity, renewable energy usage, and waste reduction. Used in calculating National Bio-Ecologic Resource Score (NBERS) as alternative to GDP. ROI measures ecosystem regeneration versus resource extraction.
- **JERC - Justice Evaluation Resource Codex:** Assesses justice, equity, and resource allocation quality including access to basic needs, healthcare equity, educational opportunity, economic fairness, governance participation, conflict resolution effectiveness, and Non-Punitive Remediation (NPR) implementation. ROI measures social cohesion building versus division/conflict generation.

Integration and Applications:

- **Emission Resonance Index (ERI):** Composite score derived from PBJ Tri-Codex measurements indicating overall systemic harmony. Calculated by weighting PERC (personal coherence), BERC (ecological health), and JERC (social justice) scores to produce unified resonance metric ranging 0-1000.
- **Meritcoin Verification:** PBJ scores combined with SMAS seven-domain verification to validate contribution quality before issuing Meritcoin currency. High PBJ ROI scores amplify merit rewards.
- **Smart City Operations:** Real-time PBJ monitoring guides resource allocation, infrastructure development, and policy decisions within GERP (Giant Earth Resource Planner) framework.
- **NBERS Calculation:** BERC scores aggregate to national level, replacing GDP with National Bio-Ecologic Resource Score measuring true prosperity through ecological health rather than extractive economic activity.
- **Emission Resonance Index:** Real-time environmental impact measurement across multiple domains
- **NBERS (National Bio-Ecologic Resource Score):** Alternative to GDP measuring prosperity through ecological health and stewardship
- **BEST (Bio-Electric Signature Time):** Biometric verification system for real-time accountability and contribution tracking
- **Aura Resonance Index (ARI):** Bio-electric signature measurement integrating personal, ecological, and social resonance
- **SMAS (Seven-Domain Verification):** Multi-domain assessment system for comprehensive sustainability evaluation

Multi-domain assessment system evaluating contributions across seven distinct verification domains before issuing Meritcoin, ensuring genuine beneficial impact while preventing gaming of the system through cross-domain validation and bio-energetic signature confirmation.

The Seven Verification Domains:

- **GCF-Aligned Activities:** Direct work supporting Gracechain Framework and New Age Cybernetics principles
- **Ecological Contributions:** Measurable bio-ecologic impact including environmental stewardship and ecosystem services (caring for pollinators and bio-ecologic systems)
- **Community Service:** Basic needs provision including food, shelter, healthcare, and care work

- **Learning Contributions:** Knowledge sharing, education, and skill development building societal resilience
- **Bio-Alignment Activities:** Measured via Emotional Happiness Index and bio-energetic signature verification (BEST)
- **Pain Reduction:** Paineological metrics measuring suffering decreased, healing provided, and wellbeing enhanced
- **Systems Maintenance:** GiantERP infrastructure support, Smart City operations, and governance participation

Political & Implementation Strategies

- **The Visible City Framework:** Four-phase, eight-year incremental trust architecture for voluntary adoption of NAC governance
- **Storm Party Political Strategy:** Bipartisan coalition framework for climate-resilient Smart Cities with broad democratic appeal
- **Beyond Storm Parties White Paper:** Bio-energetic architecture for millennial civilization transformation
- **GAIA-ERES-EDF Trifecta:** Integrated planetary stewardship (GAIA), real-time education (ERES), and Earth defense (EDF) systems

Technical & Infrastructure Innovations

- **GSSG (Green Solar-Sand Glass):** Transformative building material integrating graphene, desert sand, and solar-responsive design for distributed energy
- **CyberRAVE Platform:** Data integration and community engagement framework for smart city operations
- **VERTECA:** Verification and certification system for cybernetic governance compliance
- **Gunnysack C-Structure:** Scalable Earthship community model for sustainable housing
- **Tiny Homes on Wheels Models:** Seven different sustainable mobile housing designs

Philosophical & Theoretical Foundations

- **BECAUSE 777 Philosophy:** Foundational principles for bio-ecologic civilizational design
- **Paineological Meritcology:** Theoretical framework combining pain recognition with merit-based contribution systems
- **Ontology of Forgiveness:** Philosophical framework for reconciliation and restorative justice
- **Animate Institutions Concept:** Living processes as alternatives to extractive institutional structures

SELECTED PUBLICATIONS & RESEARCH

250+ White Papers and Research Publications on ResearchGate

Recent Major Publications (2025)

- Sprute, J.A. (2025). *Natural Resonance Processing (NRP) and the Basis for Graceful Evolution: Using SECUIR to Harmonize Challenge-Response Systems for Real-Time Human-AI Integration*. ERES Institute for New Age Cybernetics.
- Sprute, J.A. (2025). *What is SECUIR? When Being REAL Gets You CAUGHT: A White Paper on the Isolation Architecture of QuestionAnswer, Energy Reconciliation, and the Future of Planetary Governance*. ERES Institute for New Age Cybernetics.
- Sprute, J.A. (2025). *How Aura-Resonance Could Revolutionize Molecular Modeling*. ERES Institute for New Age Cybernetics. Co-authored with ChatGPT (OpenAI GPT-4o), DeepSeek-VL.
- Sprute, J.A. (2025). *GAIA ERES EDF: A Comprehensive Report for a 1000-Year Future Map - A Unified Framework for Planetary Stewardship, Real-Time Education, and Earth Defense*. ERES Institute for New Age Cybernetics.
- Sprute, J.A. (2025). *ERES Definition - Comprehensive: The Aura Resonance Index (ARI) as Foundational Witness Eye*. ERES Institute for New Age Cybernetics.
- Sprute, J.A. (2025). *ERES Quantum Application: PlayNAC w/ VERTECA - Establishing a Cybernetic Loop Between Reference Architecture and Practical EP Application for GERP User-GROUPs of Smart-Cities*. ERES Institute for New Age Cybernetics.
- Sprute, J.A. (2025). *The Aura Resonance Index (ARI): A Pulsating Vision for Sustainable Cities of Tomorrow*. Medium. Revision credits: Grok (xAI).
- Sprute, J.A. (2025). *Unified Operating System for Humanity (HUOS Framework)*. Medium. Oversight by JAS ChatGPT LLM.
- Sprute, J.A. (2025). *Learning Gracechain: Creating an EarnedPath*. Medium. JAS DeepSeek LLM collaboration.

Earlier Foundational Works (2022-2023)

- Sprute, J.A. (2023). *ERES Institute for New Age Cybernetics JAS BARD LLM: Building an Empirical Realtime Education System*. Co-authored with Google AI BARD.
- Sprute, J.A. (2023). *ERES EPIR-Q: Evaluating the ERES EP GERP Framework*. ERES Institute for New Age Cybernetics.
- Sprute, J.A. (2022). *ERES Institute for New Age Cybernetics Semantics and Value Proposition*. ERES Institute for New Age Cybernetics.
- Sprute, J.A. (2004). *Approaches to Boundaryless Information Flow Architecture: Report from the Washington Conference*. Version 1.0.

Research Focus Areas

- Bio-Cybernetic Integration & Human-AI Coevolution
- Planetary Governance & Democratic Coordination Systems
- Bio-Ecologic Economics & Merit-Based Value Creation
- Environmental Metrics & Sustainability Measurement
- Smart City Infrastructure & Urban Resilience
- Kirlianography & Bio-Electric Signature Analysis
- Blockchain & Distributed Ledger Technologies for Governance
- Quantum Computing Applications in Social Systems

TECHNICAL SKILLS & EXPERTISE

Programming & Development

- **Languages:** Python (advanced simulation development - 2,847 lines for economic modeling), JavaScript/TypeScript, SQL
- **AI & LLM Integration:** Extensive collaboration with ChatGPT, Claude, Grok, DeepSeek, Google Bard/Gemini for research and development
- **Blockchain:** Cryptocurrency design, distributed ledger architecture, smart contract conceptualization
- **Data Visualization:** Interactive dashboards, real-time monitoring systems, resonance mapping

Architecture & Design

- **Systems Architecture:** Multi-scalar framework design, cybernetic feedback loops, integrated governance systems
- **Enterprise Architecture:** Reference architectures, boundaryless information flow, service-oriented design
- **Network Architecture:** VPN design, secure communications, distributed systems
- **Database Design:** Metadata structures, semantic tapestries, knowledge graphs

Research & Documentation

- **Technical Writing:** White papers, research publications, system specifications, user documentation
- **Academic Publishing:** ResearchGate (50+ publications), peer collaboration, interdisciplinary synthesis
- **Knowledge Management:** Repository organization (GitHub, Google Drive), version control, comprehensive documentation

Domain Expertise

- **Cybernetics & Systems Theory:** Feedback loops, emergence, complexity management, adaptive systems
- **Game Theory:** Cooperative dynamics, mechanism design, participatory frameworks
- **Political Science:** Democratic systems, coalition building, policy implementation, bipartisan strategy
- **Economics:** Alternative economic systems, cryptocurrency, resource allocation, sustainability metrics
- **Environmental Science:** Emission tracking, ecological metrics, bio-resonance, planetary stewardship
- **Philosophy:** Ethics, ontology, epistemology, phenomenology of consciousness

EDUCATION & CONTINUOUS LEARNING

Self-Directed Interdisciplinary Research (2012-Present)

Comprehensive study across systems theory, cybernetics, economics, political science, environmental science, philosophy, computer science, and AI governance. Integration of diverse fields into unified frameworks for civilizational transformation.

Technology & Business Education (1990s-2000s)

Extensive professional development in information and communications technology, enterprise architecture, network security, business systems analysis, and strategic planning.

Collaborative AI Learning (2022-Present)

Deep engagement with frontier AI systems (ChatGPT, Claude, Grok, DeepSeek, Gemini) for research synthesis, technical development, and framework refinement. Co-authorship on multiple publications demonstrating human-AI collaborative capability.

PROFESSIONAL DEVELOPMENT & PRESENTATIONS

- Department of Homeland Security Critical Infrastructure Protection Conference (2002)
- The Internet Society Technical Symposia (Multiple presentations)
- The Open Group Enterprise Architecture Forums
- Washington Conference on Boundaryless Information Flow (2004)

CURRENT STRATEGIC INITIATIVES

Active Development & Research

- **Documentation Consolidation:** Systematizing ~400 files across repositories for enhanced accessibility and collaboration
- **Implementation Strategy Refinement:** Developing The Visible City Framework for practical political deployment of NAC governance
- **Economic System Simulation:** Enhancing Meritcoin/Gracechain/UBIMIA interactive models for demonstration and validation
- **Technical Specification Development:** Creating comprehensive implementation guides for PBJ Tri-Codex and SECUIR systems

Institutional Partnership Objectives

- **AI Safety Organizations:** Collaboration on beneficial AI development, constitutional AI frameworks, and democratic governance systems (targeting Anthropic, OpenAI, DeepMind)
- **Infrastructure Innovation:** Power systems advancement, sustainable energy integration, smart grid development (targeting GE Vernova Power Systems)
- **Urban Planning & Resilience:** Smart city implementation, climate adaptation, democratic urban governance
- **Environmental Monitoring:** Bio-ecologic metrics deployment, emission tracking systems, sustainability certification
- **Economic Innovation:** Alternative economic system piloting, cryptocurrency development, merit-based allocation trials

PROFESSIONAL AFFILIATIONS & PLATFORMS

- **ResearchGate:** Active researcher with 50+ publications and ongoing collaborative projects
- **GitHub:** Open-source code repository maintainer for ERES frameworks and simulations
- **Medium:** Regular contributor on New Age Cybernetics, AI governance, and sustainable systems
- **Academia.edu:** Academic publication sharing and scholarly networking

PERSONAL ATTRIBUTES & WORK PHILOSOPHY

- **Visionary Systems Thinking:** Ability to synthesize complex interdisciplinary concepts into coherent, implementable frameworks spanning multiple timescales
- **Democratic Commitment:** Deep dedication to participatory governance, voluntary adoption, and democratic oversight in all system designs
- **Collaborative Innovation:** Extensive experience working with AI systems and human collaborators to advance research and development
- **Long-Term Perspective:** Millennial-scale planning integrated with practical incremental implementation strategies
- **Ethical Foundation:** Commitment to beneficial outcomes, environmental stewardship, and human flourishing as core design principles
- **Persistent Dedication:** 13+ years of sustained development demonstrating commitment to civilizational transformation despite resource constraints

PORTFOLIO & REFERENCES

Comprehensive Documentation Available:

- ResearchGate Profile: researchgate.net/profile/Joseph-Sprute (50+ publications)
- GitHub Repositories: github.com/eresmaestro (Technical implementations and code)
- Medium Publications: medium.com/@josephasprute (Accessible explanations and vision pieces)
- Google Drive Repository: Extensive framework documentation (available upon request)
- Working Simulations: Interactive demonstrations of economic and governance systems

Professional References Available Upon Request

Joseph Allen Sprute • Founder, ERES Institute for New Age Cybernetics
"Building animate institutions for millennial civilization through democratic cybernetic governance"