

"iSENES" - A Web-Based Sensor Engineering System

iWaveSolutions LLC

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Problem

- What: DoD Sensor technology programs employ traditional tools and solutions when investigating threat mitigation solutions
 - Some areas have improved: software tools (languages, etc), toolboxes (Labview, Matlab, etc), published results
 - However: Sensor investments are still largely compartmentalized and leverage efforts are “best effort”
- Why: improve R&D efficiency and reduce future technology investment costs
- Who: R&D and acquisition community

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Solution

- Facilitate leverage opportunities by incorporating state of the art Information Technology interfaces to High Fidelity Sensor Simulations
- Create sophisticated web-based simulation capabilities which allow researchers to quickly evaluate concepts which otherwise would normally require modest investments in either fidelity, training, flexibility, and software.
- Create mechanisms which allow simulations results to be stored, reused, and shared
- Answer: RAST + Web + WS + DBMS

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Team

- D.J. Fabozzi II – PM
 - Experience with PM, radar modeling, high performance computing
- Marc Lefebvre – IT lead
 - Experience with web services, DBMS
- Ayesha Lefebvre – User Interface
 - Experience with web systems, user management
- Over 50 years combined direct experience

Status as of 6/24/09

- Phase I web-based high fidelity airborne simulation running on isenes.com
 - 32 key components, deployed web service for each
 - 191 controllable parameters
- DBMS interfaces to saved experiments, output data
- Fronted by a Content Management System
- Next:
 - Testing
 - Additional model

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isenes.com

High Fidelity Simulation | Sensor Experimentation System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.isenes.com/cms/?q=node/10

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Sensor Experimentation System

Home Workspaces Jobs Low Fidelity Solution **High Fidelity Solution** Documentation News Support

High Fidelity Simulation

Home

Workspace Name:

Workspace Id: 5521177d2173

Workspace Owner: djfabozzi

Main: This section contains the glyphs in the Main group. Select a glyph to see the associated parameters.

Filtpdaary ²	GenLfmWvf ²	GenLinArray ²
HFC WG Prescan ²	Simcon ²	SiteSpecificScat ²

Initialization: This section contains the glyphs in the Initialization group. Select a glyph to see the associated parameters.

PointMassPlatformUESA ²	RxInit ²	TgtInitA ²
PointMassPlatformTgt ²	TxInit ²	

Community Status

- My account
- Feed aggregator
- Log out

Recent Runs

- Run 1
- Run 2
- Run 3

Queue Status

Status 1
Status 2
Status 3

Community Runs

How is this different than Recent Runs?

Done

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Company Profile

- Company name: iWaveSolutions LLC
- Date Founded: (LLC – 10/08, SP - 12/05)
- No. of members: 4
- DBAs: none
- Business areas: Engineering Solutions, Radar Simulation, Software Development, Web Services, Data Base Management Systems, System Integration
- Latest Projects:
 - Windsurfing Classifieds,
<http://www.windsurfingclassifieds.com/>
 - Bijou One, <http://www.bijouone.com/>
 - Naval Oceanographic and Atmospheric Administration Pacific Regional Integrated Science and Assessment (Pacific RISA) <http://www.pacificrisa.org/>

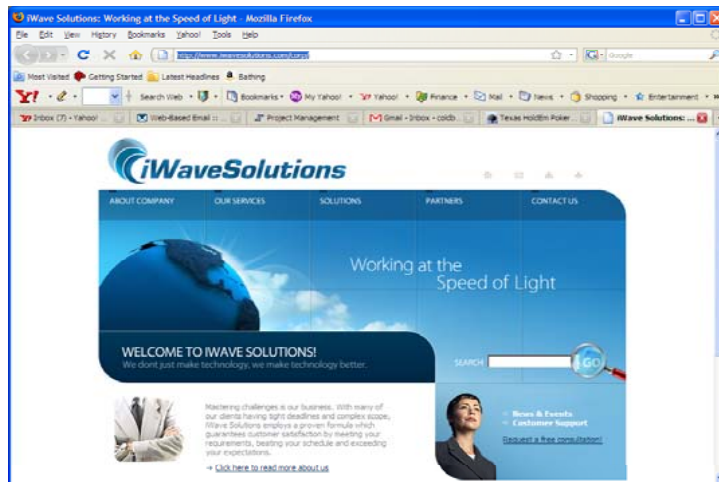
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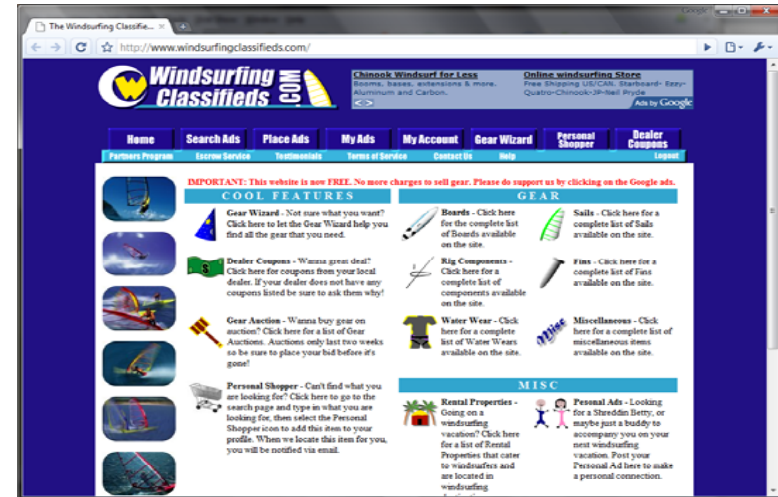
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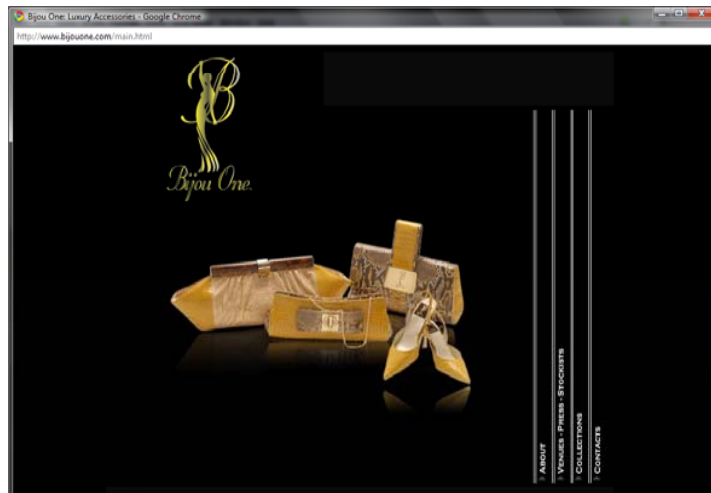
Company Projects



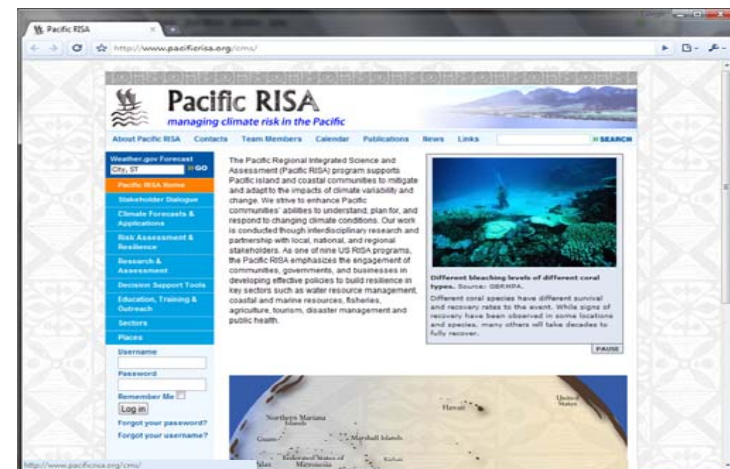
iwavesolutions.com



windsurfingclassifieds.com



bijouone.com



pacificrisa.org

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Company Profile



Conference Room



Training Facility

Pono Center, Suite 309
62 N. Market St
Wailuku, HI 96793



Network Center

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