

Mike Bobak – Knowledge-Engineer / Research-Programmer

2104 Bryant, San Francisco, CA 94110 | 415-894-9724 | mike.bobak@gmail.com

EXPERIENCE

Freelance: Knowledge-Engineer/Ontologist / 2011-present (San Francisco)
Semantics/data-sci consulting, including. IoT, CMS, pharma-ontologies.

Apollo Group: Architect, Adaptive Learning Platform / 2010-11 (San Francisco)
Semantic annotation of tests and related study materials so needs could be surfaced.

UCSF: Programmer/Analyst III / 2007-10 (San Francisco)
Semantic annotation of clinical trial entrance descriptions to automake induction.

Freelance: Knowledge-Engineer/Programmer / 2001-07 (Chicago/Boston)
Brightware-like follow on rule-based consulting, including Verizon and others.

Beckman Institute: Research Programmer / 1998-2001 (Champaign)
Coordinated software teams to make an immersive intelligent simulation tutor.

Brightware: Knowledge-Engineer/Programmer / 1996-98 (Chicago)
Helped design and did first install of an automated email answering system, and more.

Institute of Learning Sciences: Lead Programmer/Analyst / 1996 (Evanston)
Extended a model-based explainable simulation/Intelligent-Tutoring-System.

Argonne National Lab: Software Engineer / 1993-96 (Argonne)
Wrote expert-system for EPA, then knowledge-guided distributed eco-simulation.

EDUCATION

University of Illinois, Urbana-Champaign — *MS Biophysics/Combio/AI*
Wrote well-used molecular viz/minip package. Thesis: Knowledge-Guided Simulation.

University of Illinois, Urbana-Champaign — *BS Physics, BS Biophysics*
Included work/study at an [allied lab](#), writing acoustics simulation, taking data and more.

More detailed resumes at:

<http://notional.no-ip.org/michael-bobak.html>

<http://mike.bobak.googlepages.com/m-bobak.pdf>

SKILLS

AI

[Artificial Intelligence](#)
[Adaptive-Systems](#)
[Computational-Intelligence](#)

[Business-Rules/Expert-Systems Case-Based-Reasoning](#)
[Intelligent Agents/Systems](#)

[Onto/Knowledge-Eng,Kn-Based-Systems](#)
[Ontology/Taxonomy Dev](#)
[Controlled Vocabularies](#)
[Conceptual/Decision-Modeling Knowledge-Representation](#)
[Logic-Programming](#)

[Natural Language](#)
[Processing/Understanding](#)
[Text Classification SNOMED](#)

[Semantic:Web, Search](#)
[Information](#)
[Access/Extraction/Retrieval](#)

[Data Mining/Machine-Learning](#)
[Data-Analysis](#)

[Model-based-reasoning](#)
[Composite Applications Causal](#)
[Inference Intelligent-Tutoring- Systems](#)

Science

[Research Scientific](#)
[Viz/Simulation](#)

[Computational-Science](#)
[Math/\(Bio\) physics](#)

Others

[HPC/Cloud-Computing:](#)
[Mapreduce/Hadoop](#)

[Exploratory-Programming,](#)
[Dynamic Languages,Common](#)
[Lisp etc.](#)