

Mike Bobak

Knowledge-Engineer / Research-Programmer

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EXPERIENCE

Freelance, SF — Knowledge-Engineer/Ontologist 2011-present

Semantics/data-sci consulting, incl. IoT, CMS, pharma-ontologies, and related courses.

[ApolloGrp.edu](#), SF — Architect, Adaptive Learning Platform 2010-11

Semantic annotation of tests and related study materials so needs could be surfaced.

[UCSF.edu](#), SF — Programmer/Analyst III 2007-10

Semantic annotation of clinical trial entrance descriptions to automake induction.

Freelance, Chicago/Boston — Knowledge-Engineer/Programmer 01-07

Brightware-like follow on rule-based consulting, incl. Verizon and many others.

[kbs.ai.UIUC.edu](#), Beckman Inst — (sr)Research-Programmer 1998-2001

Coordinated software teams to make an immersive intelligent simulation tutor.

[Brightware](#), Chicago — Knowledge-Engineer/Programmer 1996-98

Helped design and did first install of an automated email answering system, and more.

[Inst of Learning Sciences](#), Evanston, IL — Lead Programmer/Analyst 96

Extended a model-based explainable simulation/Intelligent-Tutoring-System.

[Argonne National Lab](#), Argonne, IL — Software Engineer 1993-96

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.

Expanded versions 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,KnBase](#)

[d Sys Ontology/Taxonomy Dev](#)

[Controlled Vocabularies](#)

[Conceptual/Decision-Modelin](#)

[g 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.](#)