

# Mike Bobak

Knowledge-Engineer / Research-Programmer

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## EXPERIENCE

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

Data-science/semantics study/projects and work, incl IoT, CMS, pharma-ontologies.

**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 other places.

**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.

**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 coupled eco-simulation.

## EDUCATION

**University of Illinois, Urbana-Champaign** — *MS Biophysics/Combio/AI*

Wrote well used molecular viz/minp 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 & 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/KnowledgeEng,KnBased SysOntology/Taxonomy Dev Controlled Vocabularies Conceptual/Decision Modeling Knowledge Representation LogicProgramming](#)

[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](#)

[ComputationalSci Math/\(Bio\) physics](#)

Others

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

[ExploratoryProgramming, Dynamic Languages,Common Lisp etc.](#)