

**Russ Robbins**  
phone: 570-884-3647  
email: [russ.robbins@outlook.com](mailto:russ.robbins@outlook.com)  
portfolio: <https://robbinsr.squarespace.com>

## SUMMARY

Envisioned, packaged, sold, and managed six IT innovations and tens of traditional IT projects. Led hundreds of individuals on tens of small IT projects. Incorporated hundreds of off-the-shelf software programs. Taught 3000+ students. Capable salesperson, leader, knowledge engineer, statistician, programmer, SQL/NoSQL database administrator, machine learning advocate, and systems administrator.

## EXPERIENCE

Job Seeker  
Selinsgrove, PA  
September 2014 to present

- Recommended projects by filtering collaboratively with MLIB.
- Employed Oracle 11g/12c, WebLogic, OBIEE, SQL\*Plus, SQL\*Developer, SQL\*Loader, ODI, RCU, etc.
- Validated 48,585 records before Oracle load with Python and Pandas
- Anticipated click-through rates via one-hot-encoding, hashing, and logistic regression
- Classified documents based on TF-IDF and Cosine similarity entity resolution
- Executed a 561 column crosswalk across 10,300 records using R
- Winnowed statistically predictive features from twenty to two with Lasso L2 algorithm
- Balanced statistical variance and bias by leveraging Ridge L1 regularization algorithm
- Designed 985,009 statement computerized version of the English language
- Implemented computerized version in GraphDB, StarDog, Protégé, and TopBraid Composer
- Discovered neuron firing patterns in central nervous systems with principal components analysis
- Understood NoSQL perspectives using MongoDB, Cassandra, AllegroGraph, and others

Assistant Professor  
Susquehanna University  
Selinsgrove, PA  
August 2013 to August 2014

- Challenged students to analyze an unsolved problem and design a solution
- Demarcated students' activities using drivers, constraints, issues, tasks, risks, and costs
- Guaranteed students' requirements could be traced forward and backward through the SDLC
- Grounded students' work breakdown, schedule, and budget in requirements
- Framed students' requirements in their respective rationales, priorities, and measures
- Documented students' business events' use cases in AS IS processes and AS IS data stores
- Enriched students' activities as they designed TO BE processes, TO BE data stores
- Scaffolded students as they created TO BE forms, TO BE reports, and TO BE navigation schemes

Visiting Assistant Professor  
University of Pittsburgh  
Pittsburgh, PA  
August 2008 to August 2013

- Sold four software projects to National Science Foundation and the University of Pittsburgh
- Managed \$101,491, scope risks, 10 staff, 200+ students, and 100+ requirements, as project manager
- Directed \$23,000, reduced technology risks, and capacitated 7 stakeholders, as project manager
- Guided \$5,200, led 1000+ students, and addressed 100+ needs, as project manager
- Orchestrated \$20,000, realizing 100+ requirements with 10+ stakeholders, as project manager
- Built learning tool using MySQL, Tomcat, Eclipse, Java EE, Java Server Pages, as software developer
- Created analytics experiences in SAP, SQL, RapidMiner, as data modeler, and software developer

Assistant Professor  
Marist College  
Poughkeepsie, NY  
August 2005 to August 2008

- Sold \$90,000 software project to National Science Foundation
- Sold several software projects to NXP Semiconductors, Philips Electronics, and IBM; managed same
- Assured software benefit using IEEE Standards, in project manager role
- Understood needs using UML Use Case, Activity, Class, Sequence, State diagrams, as analyst lead
- Designed solution with UML, entity-relationship (ERD), and data-flow (DFD) diagrams, as design lead
- Aided students documenting needs and fulfillment by teaching Rational Rose Software, as trainer

Clinical Assistant Professor  
Rensselaer Polytechnic Institute  
Troy, NY  
January 2001 to July 2005

- Sold and managed several software projects at GE Specialty Materials and MapInfo
- Helped students scope and structure problems and needs using IEEE Standards, as project manager
- Constructed web application that supported decision making, as software developer
- Invented agent-based software that simulated group decision making, as software developer
- Taught 420 students, as instructor

Co-founder  
Achaean Technology  
Watervliet, NY  
January 1998 to December 2000

- Sold enterprise software concept to 10+ executives and middle managers
- Motivated 10+ employees as they built, provided, and maintained application

Business Systems Analyst  
Rensselaer Polytechnic Institute  
Troy, NY  
September 1997 to December 2000

- Collaborated with business process owners, built crosswalk, and requirements.
- Co-transformed and co-loaded 1.4 million records from mainframe to Oracle 7
- Constructed several reporting applications
- Built a proof-of-concept data warehouse that successfully justified project funding
- Replicated production environment in data warehouse and wrote update scripts
- Generated requirements and user documentation for the ERP system web interface
- Created indexes making data access 55 times faster than in production environment
- Installed upgrades to and executed patches to Oracle
- Employed Informatica, Unix scripts, PL/SQL, Oracle, Oracle Forms, SQL\*Plus, SQL\*Developer

Accounting Clerk  
IBM  
Binghamton, NY  
May 1991 to May 1995

- Led team that delivered \$3 billion annually to suppliers and governments

Radio Operator  
US Army  
Fort Huachuca, AZ  
August 1985 to August 1987

- Chauffeured lieutenant colonel, major, and command sergeant major
- Honorable Discharge

## EDUCATION

- University of California, Berkeley - Certificate - Big Data August 2015
- Johns Hopkins University - Certificate - Data Science May 2015
- Rensselaer Polytechnic Institute - Ph.D. Engineering Science December 2005
- Rensselaer Polytechnic Institute - M.S. Information Technology December 2004
- Binghamton University - M.S. Accounting May 1997
- University of Missouri - B.S. Finance December 1990

Other education is in process at University of Pennsylvania's Wharton School and the University of Washington's Statistics Department.

## SKILLS SUMMARY

Detailed list: <http://robbinsr.github.io/assets/skills/skills.pdf>

- Databases (e.g. Oracle, MySQL, SQL Server)
- Development environments (e.g. Eclipse, WebStorm, PyCharm)
- Development processes (e.g. Traceable Requirements, Testing, Validating, Verifying)
- Graphically-oriented analytics toolboxes (e.g. RapidMiner, SAP Crystal Reports)
- Programming and Declarative Languages (e.g. Java, Python, R, SQL, XML)
- Programming fundamentals (e.g. Lambda Expressions, Data Structures)
- Programming utilities (e.g. GitHub, Maven)
- Programming resources (e.g., Stack Overflow, CodePen, Regex Testers)
- Project management (e.g. Expectations/Relationship Management, Cost Estimating)
- Python packages (e.g. PySpark, Pandas, GraphLab, BeautifulSoup)
- R libraries (e.g. caret, ggplot2, ShinyApps, knitr, lattice, rmarkdown)
- Selling (e.g. lead generation, lead conversion, closing, relationship management)
- Training approaches and tools (e.g. project-based, problem-based)

## REFERENCES

### DR. BRIAN S. BUTLER

Professor and Dean of the College of Information Studies  
University of Maryland  
301-405-2033, [bsbutler@umd.edu](mailto:bsbutler@umd.edu)  
Brian was my supervisor at the University of Pittsburgh.

### DR. WILLIAM E. HEFLEY

Clinical Professor of Information Systems in the Naveen Jindal School of Management  
The University of Texas at Dallas  
972-883-5006, [William.Hefley@utdallas.edu](mailto:William.Hefley@utdallas.edu)  
Bill was a senior colleague of mine at the University of Pittsburgh.

### MS. SHARON L. KUNKEL

Registrar at the Office of the Registrar  
Rensselaer Polytechnic Institute  
518-276-6028, [kunkes@rpi.edu](mailto:kunkes@rpi.edu)  
Sharon was my "dotted-line" supervisor and customer at Rensselaer.

### DR. CHARLEY TICHENOR

Former staff to Chief Information Officer at the Internal Revenue Service  
Lieutenant Colonel, Retired, US ARMY RESERVE  
Assistant Professor, Marymount University  
703-901-3033, [Charley\\_tichenor@hotmail.com](mailto:Charley_tichenor@hotmail.com)  
Charley was a customer of mine at the IRS.

### DR. WILLIAM A. WALLACE

Yamada Corporation Professor of Industrial and Systems Engineering  
Professor of Civil and Environmental Engineering  
Professor of Cognitive Sciences  
518-276-6854, [wallaw@rpi.edu](mailto:wallaw@rpi.edu)  
Al has been my teacher, mentor, patron, colleague, and friend.