Russ Robbins

My portfolio is available at <https://robbinsr.squarespace.com> .

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| **CONTACT INFORMATION**  570-884-3647  russ.robbins@outlook.com  **EXPERIENCE**  **Data Engineer at Engage Data, UnLimited** Selinsgrove, PA – September 2014 to present   * Applying machine learning and statistics to analyze data.   + Use databases, enterprise systems, business intelligence applications, data warehouse software. * Employ classic statistics, statistical programming, and general purpose programming. * Leverage big data product offerings and cloud services. * Models focus on regression, classification, and clustering. * Algorithms focus on automating model selection. * Metrics focus on balancing need to predict vs. need to understand business process / environment.   **Researcher, Asst. Professor at Susquehanna University**  Selinsgrove, PA - August 2013 to August 2014   * Built RDF declarative graph of English.   **Project Manager, Engineer, Visit. Asst. Professor at University of Pittsburgh** Pittsburgh, PA - August 2008 to August 2013   * Taught 1925 students project management and data analysis. * Managed a $23,000 budget, short schedules, and 7 stakeholders, and risks driven by customers’ values. * Managed a $5,200 budget, short schedules, 1000+ students, and 100+ requirements. * Managed $101,491 budget, a 3-year schedule, 10 staff, 200+ students, and 100+ requirements. * Managed $20,000 budget, a 2-year schedule, 3 contracts, 10+ stakeholders and 100+ requirements. * Integrated and used standards prescribed by Project Management Institute and IEEE. |

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| **EXPERIENCE (continued)  Project Manager, Researcher, Assistant Professor at Marist College** Poughkeepsie, NY - August 2005 to August 2008   * Led software engineering projects at Philips Electronics, NXP Semiconductors, and IBM. * User interfaces followed usability principles. * Code built upon design patterns. * Architecture leveraged customer’s infrastructure. * Used IEEE Standards for quality assurance, documenting tests, user documentation, and configuration. * Used UML Use Case, Activity, Class, Sequence, Communication, State, Component diagrams. * Used entity-relationship and data-flow diagrams.   **Researcher, Clinical Asst. Professor at Rensselaer Polytechnic Institute**  Troy, NY - January 2001 to July 2005   * Collected data using observation, surveys, video/audio recording. * Designed, developed, verified, validated, and used ethics decision making simulation. * Led software engineering projects at MapInfo (geo-spatial analytics) and GE. * Used IEEE Standards for scoping, requirements management, and design development.   **Project Manager, Software Engineer at Achaean Technology**  Watervliet, NY - January 1998 to December 2000   * Designed and developed first-to-market enterprise software for agencies providing services to the intellectually disabled.   **Business Systems Analyst at Rensselaer Polytechnic Institute** Troy, NY – September 1997 to December 2000   * ETLed 1.4 million person/course units, 68,000 student records, 44,000 degrees from mainframe software to Oracle 7. * Developed data warehouse by using Brio, Informatica, Unix shell scripts, PL/SQL, and production data.   **Accounting Clerk at IBM** Binghamton, NY – May 1990 to May 1994   * Led team that delivered $3 billion annually to suppliers and governments.   **Radio Operator in US Army** Fort Huachuca, AZ – August 1985 to August 1987   * Chauffeured lieutenant colonel, major, and command sergeant major. Honorable Discharge. |

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| **SKILLS**  My skills fall into the following very high level categories.   * Training approaches and tools (e.g. project-based; problem-based) * R libraries (e.g. caret; ggplot2) * Python packages (e.g. PySpark; Pandas; GraphLab; BeautifulSoup) * Statistics toolboxes (e.g. MATLAB; Stata) * Statistics fundamentals (e.g. A/B Testing; Linear Regression) * Project management (e.g. Expectations/Relationship Management; Estimating) * Programming utilities (e.g. GitHub; Maven) * Programming fundamentals (e.g. Lambda Expressions; Closures) * Programming / Declarative Languages (e.g. Python; RDF) * Machine learning fundamentals (e.g. Cross-Validation; Gradient Descent) * Graphically-oriented toolboxes (e.g. RapidMiner; SAP Crystal Reports * Development processes (e.g. Traceable Requirements; Design Patterns) * Development environments (e.g. Eclipse; PyCharm) * Databases (e.g. Oracle; Cassandra) * Analytics Fundamentals (e.g. SQL; Graph Theory) |