

# Miguel Velez

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## Publications

### Refereed Journal Articles

- [3] Gail C. Murphy and David Notkin. “Reengineering with Reflexion Models: A Case Study”. In: *Computer* 30.8 (Aug. 1997), pp. 29–36.
- [2] D. L. Parnas. “On the Criteria to Be Used in Decomposing Systems into Modules”. In: *Commun. ACM* 15.12 (Dec. 1972), pp. 1053–1058.
- [1] Wm. A. Wulf, Ralph L. London, and Mary Shaw. “An Introduction to the Construction and Verification of Alphard Programs”. In: *IEEE Trans. Softw. Eng. (TSE)* SE-2.4 (Dec. 1976), pp. 253–265.

### Refereed Conference Publications

- [1] Miguel Velez, Jason Sawin, Alexia Ingerson, and David Chiu. “Improving Bitmap Execution Performance Using Column-Based Metadata”. In: *The IEEE 4th International Conference on Future Internet of Things and Cloud*.

### Books

- [1] Erich Gamma, Richard Helm, Ralph Johnson, and John Vlissides. *Design Patterns: Elements of Reusable Object-oriented Software*. Boston, MA, USA: Addison-Wesley Longman Publishing Co., Inc., 1995.

### Miscellaneous

- [5] Miguel Velez. *Current and Future Relationships Between Robots and Humans*. Summa Cum Laude Paper. Apr. 2015.
- [4] Miguel Velez, Peter Gittins, and Jason Sawin. *Extending SMILES to Encode Reaction Mechanisms*. Poster. Inquiry at St. Thomas. May 2014.
- [3] Miguel Velez and Jason Sawin. *Faster WAH Compression Querying through the Use of Metadata*. Poster. Consortium for Computing Sciences in Colleges Midwest Region. 1<sup>st</sup> place Discovery Track. 2015.
- [2] Miguel Velez and Jason Sawin. *Improving the Efficiency of CHA through Parallelization*. Poster. Inquiry at St. Thomas. May 2016.
- [1] Miguel Velez and Armando Solar-Lezama. *Simpler Implementation of Sketches through Enhanced Expressiveness*. Poster. MIT Summer Research Poster Session. 2015.