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Education

- 2000–2007 **Ph.D. in Mechanical Engineering**, *Massachusetts Institute of Technology (MIT)*.
1998–1999 **M.Eng. in Computer Science and Electrical Engineering**, *MIT*.
1994–1999 **B.Sc. in Computer Science and Electrical Engineering**, *MIT*.

Published Work

- J. T. Foley, V. Omelianov, S. Koziel, and A. Bekasiewicz, “Low-cost antenna positioning system designed with Axiomatic Design,” in *11th International Conference on Axiomatic Design (ICAD)*, O. Dodoun, Ed., Sep. 15–18, Iasi, Romania: MATEC Web of Conferences, 2017, p. 7
- J. T. Foley, E. Puik, and D. S. Cochran, “The faucet reloaded: Improving Axiomatic Design by example,” in *11th International Conference on Axiomatic Design (ICAD)*, O. Dodoun, Ed., Sep. 15–18, Iasi, Romania: MATEC Web of Conferences, 2017, p. 7
- A. Breznik, P. Planišič, and J. T. Foley, “Collaborative development of an open-source rocket control system,” in *IEEE 26th International Electrotechnical and Computer Science Conference ERK 2017*, Portorož, Slovenia, 2017, p. 4
- J. T. Foley and D. S. Cochran, “Manufacturing system design decomposition: An ontology for data analytics and system design evaluation,” in *Complex Systems Engineering and Development Proceedings of the 27th CIRP Design Conference*, May 10–12, Procedia CIRP, Cranfield University, UK: Elsevier ScienceDirect, 2017, pp. 175–180
- E. Pétursson, I. N. Karlsson, O. G. Garðarsson, P. Pálsson, V. O. Saulius Genutis, and J. T. Foley, “Axiomatic Design of equipment for analysis of SMA spring degradation during electronic actuation,” in *Complex Systems Engineering and Development Proceedings of the 27th CIRP Design Conference*, May 10–12, Procedia CIRP, Cranfield University, UK: Elsevier ScienceDirect, 2017, pp. 261–266
- J. T. Foley, E. Puik, and D. S. Cochran, “Desirable complexity,” in *10th International Conference on Axiomatic Design (ICAD)*, A. Liu, Ed., Sep. 21–23, Procedia CIRP, vol. 53, Xi’an, Shaanxi, China: Elsevier ScienceDirect, 2016, pp. 101–106
- J. Guls, Ó. I. Bjarnason, Ó. Pétursson, S. Ö. Einarsson, and J. T. Foley, “Application of Axiomatic Design in designing autonomous underwater photography lighting,” in *10th International Conference on Axiomatic Design (ICAD)*, A. Liu, Ed., Sep. 21–23, Procedia CIRP, vol. 53, Xi’an, Shaanxi, China: Elsevier ScienceDirect, 2016, pp. 278–283
- E. Puik, J. T. Foley, and D. Ceglarek, “Ignorance is bliss: Sudden appearance of previously unrecognized information and its effect,” in *10th International Conference on Axiomatic Design (ICAD)*, A. Liu, Ed., Sep. 21–23, Procedia CIRP, vol. 53, Xi’an, Shaanxi, China: Elsevier ScienceDirect, 2016, pp. 70–77
- J. T. Foley and S. Harðardóttir, “Creative Axiomatic Design,” in *26th CIRP Design Conference*, Jun. 15–17, Procedia CIRP, Stockholm, Sweden: Elsevier ScienceDirect, 2016, pp. 688–694
- D. S. Cochran, J. Li, K. Vanover, and J. T. Foley, “A System Design of a Rural Hospital Operating Room,” in *26th CIRP Design Conference*, Jun. 15–17, Procedia CIRP, Stockholm, Sweden: Elsevier ScienceDirect, 2016, pp. 597–603
- D. S. Cochran, J. T. Foley, and Z. Bi, “Use of the Manufacturing System Design Decomposition for Comparative Analysis and Effective Design of Production Systems,” *International Journal of Production Research*, vol. 55, pp. 870–890, 3 2016