

## Curriculum Vitae

**Christian A. Yates, P.E.**

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Mechanical engineer specializing in accident reconstruction. Current work involves the analysis and reconstruction of vehicular accidents, including vehicular dynamics and occupant restraint as well as the investigation of industrial accidents and product analysis.

### EDUCATION

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- 1999**                      **Master of Science, Mechanical Engineering**  
Specialization: Dynamics and Robotics  
University of Florida, Gainesville, FL
- 1995**                      **Bachelor of Mechanical Engineering, with Honors**  
Specialization: Dynamic Systems  
Georgia Institute of Technology, Atlanta, GA

### PROFESSIONAL EXPERIENCE

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- 2019 to present**        **Quality Forensic Engineering, LLC, Tallahassee, FL**  
Senior Engineer
- 2007 to 2019**            **BEC Industries, LLC, Tallahassee, FL**  
**(formerly Benedict Engineering Company)**  
Consultant
- BEC Consulting, LLC, Tallahassee, FL**  
Consultant
- 1998 to 2007**            **Benedict Engineering Company, Tallahassee, FL**  
Engineer
- 1996 to 1998**            **University of Florida, Gainesville, FL**  
1997 to 1998            Teaching Assistantship  
1996 to 1997            Research Assistantship
- 1992 to 1996**            **Benedict Engineering Company, Inc., Tallahassee, FL**  
1996                      Staff Engineer  
1995                      Engineering Intern 2  
1994                      Engineering Intern 1  
1992 to 1993            Technician 1

### LICENSES, REGISTRATIONS, & CERTIFICATIONS

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- No. 58819                State of Florida, P.E.  
No. 18936                State of Georgia, E.I.T.  
Certified Counter Balanced Forklift Operator

## **PROFESSIONAL ASSOCIATIONS**

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- Florida Engineering Society (FES)
- National Society of Professional Engineers (NSPE)
- American Society of Mechanical Engineers (ASME)
- National Safety Council #658753
- Society of Automotive Engineers

## **RELEVANT COURSEWORK/CONTINUING EDUCATION**

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April 2018	“Operator Safety Training – Sit-down Counter Balance Forklifts” Ring Power Lift Trucks, Jacksonville, FL
November 2013	“Florida’s New Expert Opinion Evidence Standard” Florida Workers’ Compensation Institute, Tallahassee, FL
October 2013	“Accessing and Interpreting Heavy Vehicle Event Data Recorders” SAE International, Oxnard, CA
July 2011	“ARAS 360 3D Computer Diagramming for Crash Reconstruction” ARAS 360 Technologies Inc., Tallahassee, FL
June 2011	“Safe Operation of Powered Industrial Truck” BEC Consulting, Tallahassee, FL
March 2008	“Traffic Accident Reconstruction” Northwestern University Center for Public Safety, Tallahassee, FL
June 2005	“Fork Lift Operator Training” Tallahassee, FL
April 2005	“PC Crash 6.2” MacInnis Engineering Associates Ltd, Tallahassee, FL
April 2004	“Analysis of Collisions Involving Pedestrians or Bicyclists” Collision Safety Institute, Tallahassee, FL
September 2003	“Crash Data Retrieval System Operator” Collision Safety Institute, Inc., Tallahassee, FL
August 2002	“General Industry Outreach Training” Benedict Engineering Company, Tallahassee, FL
March 2000	“Advanced Commercial Vehicle Inspection and Collision Investigation” Texas A&M University, Tallahassee FL

March 2000           “Commercial Vehicle Inspection and Collision Investigation”  
Texas A&M University, Tallahassee, FL

June 1999           “Traffic Accident Reconstruction”  
Northwestern University Traffic Institute, Tallahassee, FL

## **PUBLICATIONS**

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Yates, Christian A. “Design of a Three-Fingered Gripper with the Capability of Manipulation of an Object.” Master thesis, University of Florida, 1999.

Yates, Christian A. and K. D. Reisinger. “Optimization of Design of a Three-Fingered Gripper with Capability of Manipulating an Object.” Paper presented to the ASME International Mechanical Engineering Congress & Exposition, 1998.

## **PRESENTATIONS**

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Yates, Christian A. “Accident Reconstruction and Trucking Technologies.”  
National Interstate Trucking Super Summit, St. Augustine, FL, May 16, 2016.

Yates, Christian A. “All Data Energy Methods, Restraint Systems and Black Boxes.”  
BEC Consulting, LLC, July 30, 2007.

Yates, Christian A. “ACTAR Training.” Benedict Engineering Company, March 2004.

Yates, Christian A. “CDR Black Box Training.” Benedict Engineering Company, September 23, 2003.

Yates, Christian A. “Airbag Black Boxes.” Benedict Engineering Co., March 9, 2001.

Yates, Christian A. “Accident Prevention Signs.” FAMU-FSU School of Engineering, February 2000.

## **PATENTS**

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Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Scott K. Bladen, Richard Lackinger, James R. Dobbs, et al. “Port Storage and Distribution System for International Shipping Containers” Malaysia Patent No. MY-159425-A, filed March 2, 2007 and issued January 13, 2017.

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Rebecca Jeppson Bladen, Richard E. Lackinger, James R. Dobbs, et al. “Automated Automotive Vehicle Parking/Storage System” Chinese Patent No. 2011800491332, filed August 11, 2011 and issued August 17, 2016.

- Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Richard E. Lackinger, et al. "Overhead Vehicle Storage System" Chinese Patent No. ZL2007800354790, filed May 3, 2007 and issued November 25, 2015.
- Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Richard E. Lackinger, et al., "Port Storage and Distribution System for International Shipping Containers" Hong Kong Patent No. HK1144185, filed March 2, 2007 and issued February 6, 2015.
- Benedict, Charles E., Scott K. Bladen, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers." European Patent No. 2,146,894, filed March 02, 2007 and issued June 25, 2014.
- Benedict, Charles E., Scott K. Bladen, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers." Chinese Patent No. 2007800519399, filed March 02, 2007 and issued June 04, 2014.
- Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger "Automated Automotive Vehicle Parking/Storage System" U.S. Patent No. 8,734,078, filed August 12, 2010 and issued May 27, 2014.
- Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger "Warehouse Storage System" U.S. Patent No. 8,651,790, filed May 02, 2007 and issued February 18, 2014.
- Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Scott K. Bladen, et al, "Material Handling and Storage/Warehouse System" U.S. Patent No. 8,628,289, filed August 12, 2010 and issued January 14, 2014.
- Benedict, Charles E., Christian A. Yates, Brian G. Pfeifer, et al, "Automated Shipboard X-Y Track Material Handling and Storage Method" U.S. Patent No. 8,408,863, filed April 26, 2010 and issued April 2, 2013.
- Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Vehicle Storage System." Korean Patent No. 10-1189876, filed April 7, 2009, and issued October 04, 2012.
- Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Warehouse Storage System." Australian Patent No. 2007300406, filed May 2, 2007, and issued July 19, 2012.
- Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Vehicle Storage System." Australian Patent No. 2007300407, filed May 02, 2007, and issued July 19, 2012.
- Benedict, Charles E., Christian A. Yates, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers." U.S. Patent No. 8,206,074, filed July 9, 2010 and issued June 26, 2012.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Boat Storage System." Korean Patent No. 10-1158168, filed April 27, 2009 and issued June 03, 2012.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al., "Port Storage & Distribution System for International Shipping Containers." Singaporean Patent No. 154968, filed March 02, 2007 and issued May 15, 2012.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Boat Storage System." Canadian Patent No. 2,664,191, filed May 3, 2007 and issued January 10, 2012.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Vehicle Storage System." Canadian Patent No. 2,664,184, filed May 3, 2007 and issued January 3, 2012.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Warehouse Storage System." Singaporean Patent No. 151383, filed May 3, 2007 and issued November 15, 2011.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Boat Storage System." Singaporean Patent No. 151422, filed May 3, 2007 and issued November 15, 2011.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Vehicle Storage System." Singaporean Patent No. 150963, filed May 3, 2007 and issued October 14, 2011.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Overhead Boat Storage System." Chinese Patent No. 2007/800354146, filed May 3, 2007 and issued October 12, 2011.

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, et al. "Warehouse Storage System." Korean Patent No. 10-1063683, filed April 27, 2009, and issued September 01, 2011.

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, and Scott K. Bladen. "Automated Material Handling System with Load Transfer Vehicles." U.S. Patent No. 7,931,431 B2, filed September 5, 2006 and issued April 26, 2011.

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger. "Overhead Vehicle Storage System" U.S. Patent No. 7,909,558 B2, filed May 2, 2007 and issued March 22, 2011.

Benedict, Charles E., Christian A. Yates, James R. Dobbs, et al. "Overhead Boat Storage System." US Patent No. 7,850,412 B2, filed May 2, 2007 and issued December 14, 2010

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger. "Port Storage and Distribution System for International Shipping Containers." U.S. Patent No. 7,753,637, filed March 1, 2007 and issued July 13, 2010.

Benedict, Charles E., Christian A. Yates, James R. Dobbs, et al. "Port Storage & Distribution System for International Shipping Containers." U.S. Patent No. 8,206,074, filed July 9, 2010 and issued June 26, 2012.

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Scott K. Bladen. "Automated Shipboard Material Handling and Storage System." U.S. Patent 7,708,514, filed March 31, 2004 and issued May 4, 2010.

Benedict; Charles E., Dobbs, James R., Yates, Christian A., Ponder, Perry L. "Adjustable Porous Structures and Method for Shoreline and Land Mass Reclamation." Mexican Patent No. 251,009, filed April 09, 2002, and issued October 30, 2007.

Benedict; Charles E., Dobbs, James R., Yates, Christian A., Ponder, Perry L. "Adjustable Porous Structures and Method for Shoreline and Land Mass Reclamation." European Patent No. 1,383,964, filed April 09, 2002, and issued October 17, 2007.

Benedict, Charles E., Stephen R. Corbett, Christian A. Yates, et al. 2003.  
"Safety Guard for Band Saws." U.S. Patent 6,857,347, filed March 18, 2003 and issued February 22, 2005.

Benedict, Charles E., James R. Dobbs, Christian A. Yates, et al. 2002.  
"Adjustable Porous Structures and Method for Shoreline and Land Mass Reclamation." U.S. Patent 6,722,817, filed November 18, 2002 and issued April 20, 2004.

Booeshaghi, Farhad, Charles E. Benedict, Stephen R. Corbett, Christian A. Yates, et al. 2002.  
"Pivotal Guards for Power Hand Tools with Rotating Discs." U.S. Patent 6,699,114, filed April 26, 2002 and issued March 2, 2004.

Benedict; Charles E, James R. Dobbs, Christian A. Yates, and Perry L. Ponder. 2001.  
"Adjustable Porous Structures and Method for Shoreline and Land Mass Reclamation." U.S. Patent 6,481,926 B2, filed April 9, 2001 and issued November 19, 2002.