

## **JASON DOUGLAS RENWICK**

### **CURRICULUM VITAE - 2016**

**MAILING ADDRESS:** P.O. Box 3773, La Pastora, Santa Cruz, Republic of Trinidad and Tobago

**TELEPHONE:** +1-868-676-7537 (H) +1-868-316-4810 (M) +1-868-749-0048 (M)

**E-MAIL:** [jasondren@gmail.com](mailto:jasondren@gmail.com)

#### **ACADEMIC QUALIFICATIONS:**

2013–2017 **The University of the West Indies, St. Augustine Campus, Trinidad and Tobago, [Faculty of Engineering]**  
BSc. Electrical and Computer Engineering  
(Leave of absence – 2014/2015)

2006–2013 **Trinity College, Moka Estate, Maraval, Trinidad and Tobago**

##### ***CAPE (2011–2013)***

*–Mathematics Unit 1 & 2 (Distinction), Chemistry Unit 1 (Grade1) & Unit 2 (Distinction), Physics Unit 1 & 2 (Distinction), Caribbean Studies & Communication Studies (Grade 2)*

#### **PROFESSIONAL QUALIFICATIONS:**

2008 Certified A+ IT Technician after “Training in A+”, School of Business and Computer Science Ltd., Champs Fleurs, Trinidad and Tobago, Aug 4–19, (Certificate of Training/ Qualification Certificate)

#### **PROFESSIONAL DEVELOPMENT/CONTINUING EDUCATION:**

2015 Raspberry Pi Training, Telios, 2-day training, UWI, St. Augustine, Trinidad and Tobago, Sep 12 & 19 (Certificate of Completion)

2014-15 NASA (National Aeronautics and Space Administration) I<sup>2</sup> Spring International Internship Program/NIHERST/Ministry of Tertiary Education) Education, NASA Ames Research Centre, Mountain View, California, USA, Sept 2–Dec 19, 2014; Feb 9–May 29 [Returned on invitation by mentors, Fall Internship] [Mentors: Dr. José Celaya & Dr. Chetan S. Kulkarni] (Certificate of Completion)

*\*Matlab*

*\*Basic Lab Safety (Certificate of Participation)*

*\*Proficient, LabView*

- 2013      Astrophotography Course, Trainer: Isa Mohammed, CARINA/AstroClub (Jun–Aug 2013) (Certificate of Participation)
- 2011      BootCamp, Department of Computer and Information Technology, Faculty of Science and Technology, UWI, St. Augustine, Trinidad and Tobago, Jul 25–29, (Certificate of Participation)

#### **SCHOLARLY ACTIVITIES:**

#### **PUBLICATIONS (Peer-Reviewed):**

- 2015      Renwick, Jason, Chetan S. Kulkarni, and José Celaya. 2015. “Analysis of Electrolytic Capacitor Degradation from Overstress for Prognostic Studies.” In *Proceedings of the Annual Conference of the Prognostic and Health Management Society, San Diego, California, October 18–22, 2015*, edited by Matthew J. Daigle and Anibal Bregon, 234–240. Accessed October 23, 2015. <https://www.phmsociety.org/sites/phmsociety.org/files/PHM15Proceedings.pdf>.

#### **DATA SETS:**

- 2015      Renwick, Jason, Chetan S. Kulkarni, and José Celaya. 2015. “Capacitor Electrical Stress Data Set.” NASA Ames Research Center, Moffet Field, CA. Accessed October 23, 2015. <http://ti.arc.nasa.gov/project/prognostic-data-repository>.

#### **LECTURES:**

- 2015      Lecture on “Prognostics—The Science of Prediction” NIHERST Public Lecture Series, Caribbean Youth Science Forum (CYSF) 2015, TLC, UWI, St. Augustine, 1 ½ hrs, Aug 3.  
<https://www.youtube.com/watch?v=vuZPslzOLEU>.

#### **ACADEMIC POSTERS:**

- 2015      Academic Poster “*Analysis of Electrolytic Capacitor Degradation from Overstress for Prognostic Studies*,” NASA, Apr 2015.
- 2014      Academic Poster “*Implementing Prognostics Framework for Remaining Useful Life Estimation of Electrolytic Capacitor in DC-DC Converters*,” NASA, Nov 2014.

## PRESENTATIONS:

- 2015 "The NASA Internship Experience" NIHERST Public Lecture Series, Noor Hassanali Auditorium, UWI, St. Augustine, Trinidad and Tobago, 20 min, Aug 20. <https://www.youtube.com/watch?v=BK2BABG8-N4>.
- 2015 Scientist at "Socialising with Scientists" Caribbean Youth Science Forum (CYSF) 2015, TLC, UWI, St. Augustine, Trinidad and Tobago Aug 5.

## AWARDS AND HONOURS:

- 2015 Ames Honor Award 2015: Student -For outstanding technical contribution to electronic prognostics and for unprecedented support to NASA's education mission. Nov 5, 2015. [*Attendance sponsored by the E&CE Dept, FEng, UWI*]
- 2015 Rudranath Capildeo Young Scientist Award: NASA Intern 2015 [Inaugural award], Central Bank of Trinidad and Tobago
- 2014 TTAstroClub's Person of the Year [see article: Gerry, Barrow. 2014. "Jason Renwick: AstroClub's Person of the Year." *Zenith: The Official Magazine of the Trinidad and Tobago AstroClub* :34-35.]
- 2007-2013 Awards for Performance at Trinity College, Moka, Maraval included:  
2013 Peter Helps Trophy for Best 'A' Level Results  
2012 Trophy for Best Lower 6 A Level results  
Certificates of Excellence in Achievement in Academic Studies from Form 1 to Upper Six

## EMPLOYMENT/WORKING EXPERIENCE :

- 2014 Research Assistant, Dr. Marisa Wilson, Chancellor's Fellow, University of Edinburgh, 3-week project in Trinidad and Tobago, Jun 24-Jul 15  
*\*Chiefly responsible for the photography/editing/production of prints required by the project*
- 2014 Photographer/Videographer/Photo & Video Editor
- 2013 Host, Caribbean Youth Science Forum 2013, NIHERST/UWI, St. Augustine, Trinidad and Tobago (Aug 4-11)  
*\*Organiser, Astronomy night*
- 2012 - 2014 Staff member, Trinigamers (Registered Non-profit Organization) Jan 2012-Jul 2014 -*\*Community Relations Officer, Writer/Event Organiser*

## PROFESSIONAL ASSOCIATION MEMBERSHIP:

2015 Student Member, IEEE

## MEDIA INTERVIEWS AND FEATURES:

2015 Morning Brew (Talk show), CNC3 – Interview by Dr. Clifford. Nov 26, 8 mins.

2015 NIHERST Media Launch re: 2016 cohort, MTEST, Tower C, Parliament Bldg, POS, Oct 22. 10 min Speech and questions. Accompanied by Inzhaman Rahaman.

2015 First Up (Talk Show) CTV 6 CNMG – Interview by Paul Richards. Jul 28, 10 mins. Accompanied by Joseph Ryan, NIHERST Rep.

2015 Awai, Jeanette. 2015. “To Infinity and Beyond” Interview re: NASA experience. *UWI Today*, March 1. Accessed September 12, 2015. <http://sta.uwi.edu/uwitoday/publications/March2015/files/assets/basic-html/page22.html>.

2015 Ali, Shereen. 2015. “Want to Go and Create at NASA? *Trinidad Guardian* February 9: A33. <http://www.guardian.co.tt/lifestyle/2015-02-08/want-go-and-create-nasa%E2%80%88>.

2015 Douglas, Sean. 2015. “Apply to NASA via NIHERST.” *Trinidad and Tobago Newsday* January 29: Section A, 19. <http://www.newsday.co.tt/hotline/0,206238.html>.

2015 Good Morning TT (Talk show). CTV 6 CNMG – Interview by Paul Richards, Jan 28. 5 mins. Accompanied by Stefan Hosein.

2015 NIHERST Media Launch re: 2015 cohort, TLC, UWI, Jan 26. 10 min Speech and questions. Accompanied by Stefan Hosein.

2015 Heritage Radio 101.7 – Interview by Hans Hanoomansingh. Jan 20. 20 mins

2015 Morning Brew (Talk show), CNC3 – Interview by Hema Ramkissoon. Jan 20. 8 mins. Accompanied by Stefan Hosein. [http://link.brightcove.com/services/player/bcpid3866834505001?bckey=AQ~~,AAADX914sbk~,F7j47OzZJ2oepkcx6v\\_Wt6bzic2819hq&bclid=3813313908001&bctid=4001465641001](http://link.brightcove.com/services/player/bcpid3866834505001?bckey=AQ~~,AAADX914sbk~,F7j47OzZJ2oepkcx6v_Wt6bzic2819hq&bclid=3813313908001&bctid=4001465641001) Interview starts at 1hr : 34 min : 50 sec.

2015 Morning Edition (Talk show), TV6 – Interview by Fazeer Mohammed. Accompanied by Stefan Hosein. Jan 15. 12 mins. <https://www.youtube.com/watch?v=M1vMsKI5uM4>.

2014 Media Spotlight on NASA International Students. News, Intelligent Systems Division, Discovery and Systems Health, NASA Ames Research Station. Accessed September 12, 2015. <http://ti.arc.nasa.gov/news/student-interviews>.

### EXTRA-CURRICULAR ACTIVITIES:

- 2011–2015 Member - Trinidad and Tobago: AstroClub (for Secondary School/University Students)  
Senior Leader (Sep 2014–Sep 2015)  
Senior Camp Council Member (Sep 2013–Sep 2015)  
President (Sep 2012- Aug 2013)  
Instructor: *Fundamentals in Astronomy (Public/Scouts) 16 Jan–6 Feb*  
*-Advanced Astrophotography Course: Jan–Apr 2014*  
*-Telescope Proficiency Course: Sep–Dec 2013*
- 2012 Participant, 10<sup>th</sup> Trinidad and Tobago National Youth Parliament, (Representative for Morvant) (Jul–Oct 29)  
*\*Workshop: Business Etiquette, Dress and Parliamentary Civility (Certificate from Institute of Finishing Elements – July 2012)*
- 2012 Participant, Caribbean Youth Science Forum 2012, NIHERST/UWI, St. Augustine, Trinidad and Tobago (Aug 5–12)
- 2012 Sixth Form Prefect, Trinity College, Moka, Maraval, Trinidad and Tobago (Jan–Dec)
- 2011–2013 Member, Dragon Boat Team, Trinity College, Moka, Maraval, Trinidad and Tobago, (Nov 2011–Jul 2013)
- 2011–2013 President, Chess Club, Trinity College, Moka, Maraval, Trinidad and Tobago
- 2011–2013 President, Scrabble Club, Trinity College, Moka, Maraval, Trinidad and Tobago
- 2010–2013 Student Council, Trinity College, Moka, Maraval, Trinidad and Tobago  
President (Sep 2012–May 2013)  
Representative - Form 5R, (Oct 2010–May 2011)  
- Form Lower 6 Science (Sep 2011–May 2012)
- 2010 Member, National Table Tennis Association, Jan–Apr

### HOBBIES:

Astronomy, Cycling, Photography, Astrophotography, Programming, Swimming, Chess, Lawn Tennis, Table Tennis, Volleyball, Mobile and Web Development.

1 January 2016