

Fernando Aguirre

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Education	Florida Institute of Technology (Presently Enrolled) <ul style="list-style-type: none">• Bachelor of Science in Astrophysics• Bachelor of Science in Mathematical Sciences• Academic Scholarship (ACT 29)• Junior <p>GPA: 3.27 Expected Graduation Date: May 2019</p> Prairie State Community College (Senior year high school, Fall 2014 to Spring 2015) <ul style="list-style-type: none">• Dual-Enrollment• 23 credits transferred Crete-Monee High School (2011-2015) <ul style="list-style-type: none">• State Scholar (Illinois)• All-State Academic (soccer)
Skills	<ul style="list-style-type: none">• Proficient Equipment/Electronics Handling (Ortega Telescope, high-speed cameras)• Proficient in Microsoft Office Suite• Moderate Experience in C++, Python, MATLAB, and LaTeX• Moderate Experience in Linux (Ubuntu, Raspbian)• Bilingual (Fluent in Spanish)
Research Experience	Geospace Physics Lab at Florida Institute of Technology (1/2016 – current) <ul style="list-style-type: none">• Daily Task - Review lightning videos and analyze weather radar• Weekly Task – Build equipment to measure electric fields from lightning strikes• Responsibilities - Build circuits and ensure equipment is working properly (cameras, Raspberry Pis, Electric and Magnetic Field Sensors)• Manage weather balloon payloads in debugging circuitry and retrieving balloons• Control rooftop antenna to maintain data connection with balloons• Working under Dr. Nag and Dr. Rassoul (Professor of Physics and Space Sciences, Dean of College of Science) Astrodynamics Competition 2016 HO3 Space Mission Design – Science Team Lead (5/2017 – 8/2017) <ul style="list-style-type: none">• Recommend possible instrumentation to achieve goals dedicated for science team• Creatively seek solutions to unanswered goals Transit-Timing Variation of Exoplanets (Fall 2015) <ul style="list-style-type: none">• Responsibilities – Extrapolate data to identify possible exoplanets• Research under Dr. Ragozine (Professor of Space Sciences)
Relevant Coursework	<ul style="list-style-type: none">• Electronic Measurement Techniques• Intro to Software with C++• Radio Frequency Propagation (Graduate Level Course)• Orbital Mechanics• Intro to Linear Algebra• Machine Shop• Intro to Partial Dif. Equations with MATLAB
Extracurricular Activities	President – Students for Exploration and Development of Space (5/2017 – Current) <ul style="list-style-type: none">• Vice-President 5/2016-5/2017• Responsibilities – Participate in monthly national meetups, teach new students skills• Tasks – Relay space industry information to general members• Lead Mini - Drone Project to teach and engage members into the space industry Other Memberships <ul style="list-style-type: none">• Florida Tech Soccer Club (8/2016 – Current)• Society of Physics Students (8/2015 – Current)• Student Astronomical Society (8/2015 – Current)