

# LOYOLA BLAKEFIELD CYBER SECURITY

## NOVEMBER 2022 NEWSLETTER



### Foreword

During the month of October, LBCSI's members have taken on a series of challenges and experiences. They have traveled internationally, presented to schools, and placed highly in national competition. We, as always, are highly satisfied with their work and are excited to share their experiences with you.

## Cyber Battle of Estonia

On October 26, Anshul Chelapurath '23, Jack Wachter '24, Teddy Marine '24, Jake Sanft '19, and Matthew Fleschner '20 set out to compete in the Cyber Battle of Estonia. After a long 12 hour flight, Anshul, Jack, Teddy, Jake, and Matthew landed in Estonia's capital, Tallinn. Accompanied by Armando Seay, Executive Director of MISI, James Mendoza and Lloyd Bolodeoku of Misi Dreamport the group received a tour of The University of Tartu's state of the art Delta Building. The team was first shown the university's Computer History Museum, IoT City, and teaching spaces, and then the



arena they would be competing in. The Cyber Battle of Estonia began at 10:00 am and ran until 5:00 pm. Competitors encountered 3 rounds of competition consisting of Capture the Flag challenges of increasing difficulty. Our team, MISI Cyber Team USA, the sole team representing the United States among 17

Baltic countries, placed 5th out of 24 teams. The competition was televised across Estonia and was hosted by a famous Estonian personality; a link to the live stream can be found [here](#). Our competitors returned home with a great deal of motivation and insight into how cybersecurity competitions are run worldwide. Matthew and Jake, LBCSI alumni, competed on the USA's Cyber Battle of Estonia team alongside current LBCSI students Jack, Teddy, and Anshul. Matt and Jake feel they have gained a better appreciation for cybersecurity competitions and the progress of Loyola Blakefield's Cyber Initiative. We would like to thank the NSA, US Cyber Command, and Armando Seay for making this incredible experience possible.

## Open House

On October 23rd, Loyola Blakefield hosted its annual Open House where prospective 5th and 8th graders come to Loyola to tour the campus and see what it has to offer. Our LBCSI Dons prepared a presentation to show interested students what cyber is about.

### IoT City

An IoT City, or smart city, is a model city used to simulate and model how different infrastructures and services, such as security cameras, traffic lights, street



lights, billboards, and public transport, communicate and function. Anshul Chelapurath '23, Teddy Marine '24, Liam Lucas '24, and Dylan Keller '24 built Loyola Blakefield's IoT City to demonstrate the basic concepts that Loyola Cyber teaches. Students interacted with different parts of the model city and were shown how they

can be attacked and defended. The attack vectors were designed using documented cyber attacks against American cities. Using what our students have created, we plan to feature a far more in-depth IoT City at our yearly competition, LBC2. Parallel to the IoT City presentation, many LBCSI members spoke with interested parents on their experiences in cybersecurity and at Loyola as a whole. Topics of discussion included certifications, sponsors, and internships.

## Social Media Presentations

This fall, our leadership team was excited to travel to local schools for social media and cyber awareness presentations. Mr. Morrill, along with Charlie Hale '23, Noah Morraye '23, Brendan McLaughlin '23, James Keller '24 traveled to St. Stephen's School and Harford Day School. We always enjoy interacting with enthusiastic students and answering all of their questions! We cannot wait to travel back! We would like to extend a special thank you to Ms. Kearney from Harford Day and Ms. Ashby from St. Stephen's. Looking towards the future, we are excited to announce that we will be traveling to St. Casimir School and St. Joseph's School - Fullerton. We are grateful for the opportunity to speak to such eager minds!



## CyberPatriot Round 1 and 2

On October 14-16 and November 4-6, our Cyber Dons competed in AFA's CyberPatriot Competition Rounds 1 and 2, respectively. In both Round 1 and 2, LBCSI ranked first through third in Maryland. Overall, Team Charlie's Angels, consisting of Charlie Hale '23, Teddy Marine '24, Jack Wachter '24, Dylan Keller '24, Aidan Sachs '24, and Michael Litrenta '24, and Team Aurelius, consisting of Ansul Chelapurath '23, Casey Nazelrod '25, Nick Jacobs '23, Gracie Brehm '23, Ben Scholtes '23, and Val Runge '23, ranked 28th and 29th out of 2,062 teams. Additionally, Middle School Team Da Dons' Will Barker outdid himself in Round 2, placing 10th in Cisco scores out of 541 teams nationally! We are proud of their performances and are excited to see how they do in rounds 3 and 4!



## **Ambassador Nathaniel C. Fick**

Before our Cyber Dons departed for Estonia, we were honored to be invited to the State Department to speak with Nathaniel Fick '95. Ambassador Fick was recently appointed to head the State Department's new Bureau of Cyberspace and Digital Policy. Prior to joining the State Department, Ambassador Fick was a technology executive and entrepreneur. Earlier in his career, he served as a Marine Corps infantry and reconnaissance officer, including combat tours in Afghanistan and Iraq. Ambassador Fick then translated his experiences in the military in his book, "One Bullet Away: The Making of a Marine Officer". Ambassador Fick graciously gave his time to speak with our Cyber Dons and gave great insights into the current state of cyberspace and its global importance today. We are very grateful for the opportunity to meet with Ambassador Fick and hope to see him again soon.



## Alumni News

### Andrew Terry '22

In 2017, Andrew Terry decided he wanted to leave his comfort zone and pursue his interest in cybersecurity. After a brief stint training Cisco in his early days, Andrew found interest in the Windows Operating System. He learned Windows for five years, eventually coming full circle with a leadership team spot teaching it to other students. Along with teaching, Andrew took his knowledge a step further and helped to create many of the challenges used during the 2022 LBC2. Having graduated, Andrew now studies at the University of Central Florida and quickly found a home within their Computer Science program.

Recently, Andrew and the UCF cyber teams have been busy traveling the country competing in a plethora of competitions ranging from capture the flag to incident response. While competing in University of Buffalo's Lockdown Challenge, Andrew and the UCF team placed 4th out of 25. The team's success continued in St. Charles, Illinois, where his team and another UCF team competed in the U.S. Department of Energy (DOE) CyberForce Program. Andrew's team was able to place 2nd, and the other UCF team was able to place 1st out of 168. The teams then traveled back to Florida where they virtually competed in NIATEC, a competition hosted by the University of Idaho, placing 1st. We are so proud of everything that Andrew has been able to accomplish in his short time at UCF and cannot wait to see what else is in store!



### **Jake Sanft '19 and Matt Fleshner '21**

Jake and Matt share many things in common. They both joined LBCSI in their first year, were a part of the leadership team, and represented the United States in the Cyber Battle of Estonia.

Jake's presence in LBCSI has been felt since the second he walked in during his freshman year in 2015. During his four years with LBCSI, he primarily focused on training on the Linux operating system, but also found that he had a talent for communicating and understanding people. This culminated with his role of field operations during his senior year, where he spent countless hours writing newsletters, visiting schools, and speaking to sponsors. Jake's skills also came to fruition when an opportunity to travel to Australia arose. He and Mr. Morrill spent nine days visiting schools and teaching eager students about cyber security. Jake is currently majoring in computer science at Villanova University and has an offer from Apple to join as an offensive security engineer.

Matt has been a part of LBCSI since 2017, and even after graduation, he has stuck with it every step of the way. Along with Jake, Matt's time with LBCSI was primarily focused on training with the Linux operating system. His exceptional knowledge of not only Linux, but cybersecurity in general, landed him a spot on the leadership team during both his junior and senior years. Matt's knowledge was put to the test during his senior year, where he spent a majority of the year creating challenges for LBC2, Loyola Blakefield's in-house capture the flag competition. Matt is currently a sophomore at Butler University and hopes to continue with a career in cybersecurity after graduation.

## Student Spotlight

### Jack Wachter '24

The Baltimore Business Journal recently granted LBCSI's Jack Wachter the "INNO Under 25" award, an accolade given to promising young entrepreneurs in tech. This past summer, Jack participated in an internship at T. Rowe Price Group, Inc, gaining a better understanding of cyber in finance. In his off time, Jack also developed a stock market analysis program and is currently working on a program to assist him in purchasing highly sought after shoes. Jack was also a part of our trip to Estonia. He is at the forefront of LBCSI's development, and we will keep you updated on the many things he does in the future! Loyola Blakefield's article on Jack can be found [here](#), and the Baltimore Business journal's article can be found [here](#).



## Maryland Commerce Connections

On Friday, November 18 LBCSI hosted Ms. Kim Mentzell, Director of Cybersecurity and Aerospace at the Maryland Department of Commerce. Members of the leadership team had the distinct privilege of showing Ms. Mentzell the campus of Loyola Blakefield, along with an executive briefing of LBCSI's mission and operations. On behalf of all members of LBCSI, we would like to thank Ms. Mentzell for giving her time and coming to spend the day with Loyola Blakefield Cyber.



## Thank you Sponsors

Thank You to our sponsors on behalf of the entire LBCSI program. We would like to thank all of our partners who graciously invest their resources in LBCSI. We are grateful for your continued support and guidance over the past eleven years. We want to specifically thank our presenting partner: The Edward St. John Foundation, and cornerstone partners T. Rowe Price, and Point3. A special thank you goes out to the Edward St. John Foundation President, Ms. Sharon Akers. We appreciate the continued interest in the development of our cyber students, and we look forward to continuing our work with these sponsors in the future.

Thank you all for taking the time to read this year's Fall Newsletter! We have had a busy and exciting start to the new school year. Our team has been working hard bringing new and exciting opportunities, and we are excited to show you what we have in store for the rest of the school year.

We hope you are all doing well and staying healthy.

Thanks again,

Charlie Hale '23,

Teddy Marine '24

Mr. Stephen Morrill,

The entirety of Loyola Blakefield's Cyber Science Initiative

