

THE ENGINEERING LINK

"ANVIL OF ASGARD"

ISSUE: #032
SD: 202406

SFI * REGION 01 USS HEIMDAL NCC-1793 * ENGINEERING NEWSLETTER



"Engineering Team
of the USS Heimdal NCC-1793 – Region 01"



Welcome to the June 2024 edition of T.E.L. "delbat" - Tellaran

"Dancing Around the Galaxy" Here we are in the last few hours of the last day of May. With so much going on in the world, life, etc it's really nice to escape here for a few moments, have a *virtual* scone and coffee (ok, honestly the COFFEE is REAL) and put this issue of the T.E.L. to bed. This summer is lining up to be full of new adventures, but for now I encourage you to enjoy the following pages and stick around, Its gonna be a wild ride here in Heimdal Engineering.

If you have not been paying attention, we here in Engineering draw a lot of attention to the amazing corridors of STARFLEET Academy, We do this for several reasons including *ROI* (Return On Investment) promoting the value of your SFI.org membership, *Recognition* on a personal – department – chapter perspective, acknowledging *personal effort and accomplishment*, and promoting the continuing education opportunities afforded to all members. It's amazing what we can learn if we CHOOSE to.

On that note, please welcome CMDR Zak Lyon to the **first milestone** on his **BOOTHBY** Adventure, you do your department proud - Millner



INDEX

- 2 Roster & Calendar
- 3 / 5 Engineering Reports
- 6 STARFLEET Academy
- 7 / 9 Crew Articles
- 10 Zoom, Closing
- 11 "The Recruitment Flyer"

STARFLEET BY THE NUMBERS

As of SD:202405.30



STARFLEET

- 5306 Members, 212 Chapters

REGION 01

- 906 Members, 42 Chapters

USS HEIMDAL - 57

HEIMDAL ENGINEERING - 6*

Online Resources

Heimdal's Home Page

ussheimdal.com

The Engineering Link

trek.millnernet.com/eng-link/

Region One / SFI Corp of ENG

R1.SFI.org coe.sfi.org/

STARFLEET International

SFI.org

STARFLEET Academy

es.sfi.org/academy/login/index.php



Certificate of Achievement



In recognition of having successfully completed 50 courses in STARFLEET Academy

Zachary Lyon

is hereby awarded the

DENNIS RAYBURN BOOTHBY

Named in memory of GEN Dennis Rayburn (1958 – 2022)

Issued on Stardate 2024.05.31

Franklin Newman III

Vice Admiral Franklin Newman III
Chief of Recognition Services

Jill Rayburn

General Jill Rayburn
Commandant

"Congratulations CMDR Zachary Lyon"
Earning his first BOOTHBY – What a GREAT example Zak

Awarded 2022 & 2023 USS Heimdal "Department of the Year"
Region 01 "Communications Excellence" Best Departmental Newsletter 2021 & 2022



FCAPT Darrell Millner
CHIEF ENGINEER



ENS Larry Whately
Duty Engineer
Quartermaster (Sr)



CMDR Zak Lyon
Helm Officer
Technology Specialist



CMDR Bud Walker
Operations Officer
Quartermaster 2



LT Jody Lyon
Dilithium Maintenance
Chief Recreation Officer



PO3 Gary Burley
Maintenance Engineer
Ship Fitter

202309.19

SD: 202406 - JUNE

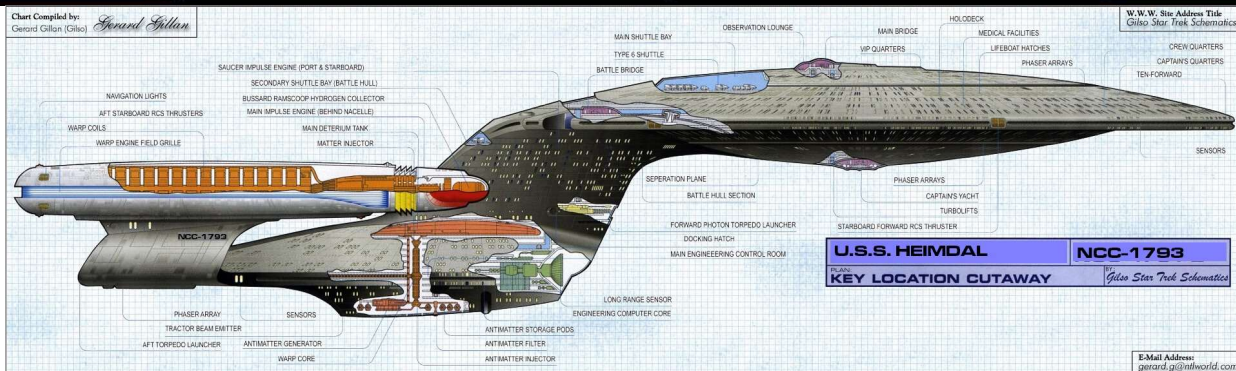
- 13 JUNE- ROLE PLAY MEETING -
- 15 JUNE- HEIMDAL MONTHLY MEETING
- 17 JUNE- **ENGINEERING DEPARTMENTAL ZOOM**
- 25 JUNE- SUBMISSIONS FOR THE ENGINEERING LINK
- 01 JULY- HEIMDAL NEWSLETTER SUBMISSIONS JULY

02-85214

03-85412

04-85413

05-74125





SD: 202405.31 - Monthly Engineering Report - CEO/FCAPT Darrell Millner

/Computer begin recording /

While moving around a few items here in the office I found the cork from a very nice bottle of Earth wine, and it took me a few moments to make the connection "SD:202105" wow I thought - three years. Three years ago this month I officially went from *Acting Chief Engineer* to **Chief Engineering Officer** of the USS_Heimdal NCC-1793. Mind you, 'Not My First Rodeo' in this role. I took on this role 2 - 3 other times over the past four decades here on the Heimdal. But these last few years have been the most productive Star Fleet wise.. From newsletters to Starfleet Academy, from video conferences to Space Camp committee, from Interdepartmental Role Play to Paintball and beyond. I think I get the most joy from the teams monthly departmental zoom session. It's honestly the next best thing to having coffee with friends and exploring new ideas.

Why do I still hear the theme song from Chitty Chitty Bang Bang in the back of my head (see pages 7 - 8) 'darn it Lyons this is like Walker and Christmas all over again' - got run over by a runabout..... NO NO NO not gonna do it.... See its not just about studying warp coils and isolinear chips. It's about having a good time, developing, and putting a little 'Star Trek' in you day.

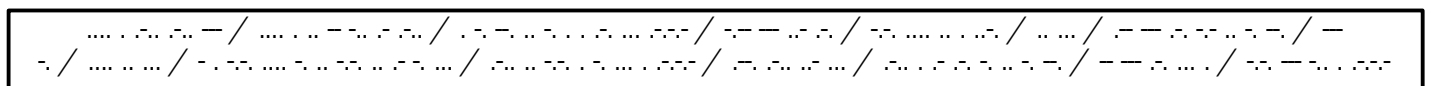
Also, gotta remember to remind the team about: **STARFLEET Quartermaster** via <https://qm.sfi.org> And in order to access STARFLEET Quartermaster they need to use the code **#Swag**

<Computer Pause> //// <Resume> Was just wondering how Peter & Lem are these days?, Both played significant roles in the progress of Heimdal Engineering over the years and the Heimdal in general. Thinks its time for some good olde written correspondence. Hopefully next week after I wrap up a few things, Model Train Shows (always the Engineer in this reality or the other) the next two weeks and I'm working with the local club to support the "Day Out With Thomas" event at the Georgia Veterans State Park, Cordelle GA with a sentient blue locomotive, and more. Sunscreen don't fail me now.

Warp Speed Ya'll ha ha, - Millner out.

Fleet Captain D. Millner, CEO
USS Heimdal Chief Engineer
R1 RDC of Engineering
STARFLEET Marine Corps Reserves
SFA Red Squad

*"Improve a mechanical device
 and you may double
 productivity. But improve man,
 you gain a thousandfold." Khan
 Noonian Singh, "Space Seed"*



**SD: 202405.23 – Monthly Engineering Report – CMDR Bud Walker**

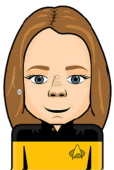
/continued/ Captain, I have handed out the assignments for the recalibration of all Bridge systems to the Operations team. I anticipate that everything will be completed within a week or so. I decided to personally do the recalibration of helm control systems, as that would allow me to spend some time with Commander Zak Lyon. As you are one of the few individuals who know about “the incident,” I can tell you that it was during that mission that I finally felt that I had made some true friends. Commander Lyon was one of those and it will be nice to catch up. Hopefully, our duty rotations will come around again so that he and I are pulling Bridge duty at the same time soon.

Captain, I respect your decision to assign me an assistant. While I was initially resistant to the idea, you are correct that the sensor data logs need to be sequenced sooner, rather than later. I admit that trying to complete all of that while attending to my other duties, would have delayed the filing of all those logs with the Science Department, and further delayed their submission to StarFleet Command. Ensign Albert Dente reported to me yesterday.

Ensign Dente is from Alpha Centauri and has been out of the Academy for more than a year. I understand that his long hair and beard are within grooming guidelines for StarFleet, but it still reminds me more of the hair choices from my original “home.” However, Ensign Dente’s personality could not be more different than someone from my home; he is very pleasant and eager. However, I must confess that I do not always get his humor. Nevertheless, he dove into the virtual pile of sensor logs without complaint.

T'Polth has been putting me through a visualization technique of Vulcan meditation. She verbally provides me with a scene, such as a picnic in a field, and I must imagine the scene in my mind. I then must focus on one of my senses (sight, hearing, etc) and describe everything in the scene with only that one sense. She then has me go through all five senses in this manner. Each time, she has pushed me to dig deeper with what I am perceiving inside my mind. The first time we did this exercise, it took me about 10 minutes, but as I have developed my mental ability the exercises take longer and longer. The last exercise we did had me envision myself standing at the base of waterfall in a jungle, and it took two hours to complete.

Lastly, I must report that I have not been able to pursue any StarFleet Academy courses as of late. Given my work schedule, it may be a while before I will be able to resume my studies . /end/

**SD: 202405.30 – Monthly Engineering Report – LT Lyon Jody**

/begin/ I continue to be happy with my decision to pursue a career in Engineering. It is fulfilling and I am becoming more competent translating my skills to new challenges. I have always been able to understand technology and problem-solve... once someone else has trained me. I am not a natural who can just “see” how things work or what needs to be done to get something working again or working more efficiently. At least, I never thought I was. However, I think that might be changing. Maybe it is simply that I am doing this work every day and it is becoming second nature. But I think I am now understanding unfamiliar tech. Now able to make suggestions without having to have everything spelled out for me first. Maybe I am becoming a natural. Just thought you should know. Something that might have prompted me to think about this aspect of my engineering abilities, is the recent Heimdal Players musical production. I wouldn’t have thought there would have been a connection. The director wanted practical, old-fashioned props. He’s pretty old-school. When I agreed to help however, I didn’t think I’d be asked to become an “inventor.” I would have thought replication would be the best way to proceed, but you know “artists.” I put my mind to it and was able to build a number of props that met the approval of the director in their appearance as well as the approval of the tech crew in their ability to function in a way that enhanced the action. I was surprised at what I could do when I put my mind to it. So, I guess that maybe I am an engineer and also becoming a bit of a tinkerer. I have decided to not limit myself and see where I can go. /end/


SD: 202405.24 – Monthly Engineering Report – CMDR. Zak Lyon

/begin/ Things are starting to get back to normal around here after the cast party for *Chitty Chitty Bang Bang*. I found myself pulling some extra duty shifts for some crew members that, shall we say, forgot to mix “synth” with the “ohol.” If you know what I mean. When you talk somebody into helping backstage, I guess you are kind of agreeing to be there for them when *they* could use a little help. And if the one you were filling in for was supposed to address a small glitch in the research database which was causing problems for students writing their final papers and when people happen to know that you have spent some time in the Eternal Gallery, well, let’s just say skills tend to be utilized. And there was a bit of a mess. The pre-federation earth history/space flight history section is pretty mixed up. Skylab with Soyeuz with Sputnik? Where you expect to find one you find the other. I am only glad that my favorite archivist, an older Caitian woman with tortoise shell marking whom I called Ms. Camille, is not here to see how the history has been misfiled. While I straightened it out, I felt her warm breath and tickle of whiskers over my shoulder, as she tutted over the carelessness. I enjoyed reading some of the entries while I was working. By the way, Captain, if I ever complain about anything, remind me of those brave people on the Skylab. To have so much malfunctioning at once. I don’t know if StarFleet could have done any better with what those engineers had to work with in the 20th century.

Speaking of time at the Archive (I was there for about a year studying alien languages), I found myself helping on the communications team today (another party-goer) translating an odd kind of Rosetta Stone. Starting with the primary language of Rygel V then to Nausican, and then to an unknown language. The team had only been working on this for a few weeks and I was happy to lend a hand. Believe it or not it turned out to be an obscure dead dialect of Old Saurian. The translation was perplexing. Why someone would bother to record what seems to be the rules of a variant of checkers only so we would have to do this decoding process. Were these people time travelers? Were those who created this artifact playing a translation tag game? Is there nothing here for anthropologists to concern themselves with? I must admit sir that a mischievous part of me wants to meet the clever ones who created this. For my own amusement I will be doing a backwards translation of the rules to Standard. Give me a couple of days, then anybody who wants to join me on the Engineering side of things, I challenge the Communications Department to see if we can figure out this game and go head-to-head.

I must admit, sir, that after this week I really appreciate that StarFleet requires bridge officers to be cross trained. Came in handy and I was able to return the favor to a few, well, suffering crew who had come to my aid.

My assigned Engineering duties went without a hitch this month, as you know. I just wanted to fill you in on my more unusual duties.

Remember Skylab (and don’t complain), /end/

USS Heimdal NCC-1793 Engineering Team – Reports End

“As a SFI, USS Heimdal Engineer – what changes would you like to see to our “The Engineering Link”? Remember this is YOUR DEPARTMENTAL NEWSLETTER and your opinion matters. Please reach out to your CEO and Editor with any suggestions”. - Millner Out



Heimdal Engineers at Starfleet Academy

LT Lyon Jody [3 Courses, Award]

IOSS - School of Planetary Identification & Discovery

DISTINCTION for SPID 107 - Dwarf Planets Pt 1 on May 13, 2024

DISTINCTION for SPID 108 - Dwarf Planets Pt 2 on May 13, 2024

DISTINCTION for SPID 109 - Dwarf Planets Pt 3 on May 13, 2024

CMDR Zachary Lyon [3 Courses, 2 Awards]

SFA Awards

Awarded the "DENNIS RAYBURN BOOTHBY 050"

Awarded for **BOCP - Chief Communications Officer Certification** on May 11, 2024

IOSS - College of Spaceflight

DISTINCTION for SKYL 101 Program Start on May 6, 2024

DISTINCTION for SKYL 102 Skylabs I & II on May 6, 2024

HONORS for SKYL 103 Skylab II on May 6, 2024

FCPT Darrell Millner [3 Courses, 1 Award]

SFA Awards

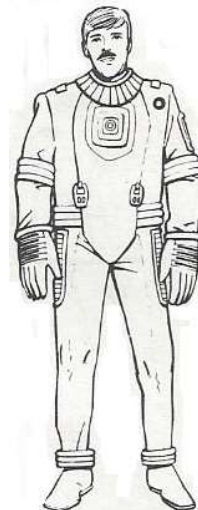
Awarded the **Boothby 0350 - Titanium [350]** on May 17, 2024

IOAE - College of Mythological Studies

DISTINCTION for EGY 201 - Egyptian Creation Myths Pt 1 on May 26, 2024

DISTINCTION for EGY 202 - Egyptian Creation Myths Pt 2 on May 26, 2024

DISTINCTION for EGY 203 - Name That God on May 26, 2024



CMDR Zak Lyon
- Dennis Rayburn Boothby 050 -
Bridge Officer Certification Program
- Chief Communications Officer -
SD: 202405.11



FCAPT Darrell Millner
Titanium Boothby (350)
SD: 202405.17



"I received the following review of our recent Heimdal Players Production and thought you might be interested in reading it." - Cmdr. Zak Lyon

A Phantasmagorically Wonderful Performance

- By Lt. Anna Blevins of the USS Kenya Castle

Last night I found myself on the main Recreation Deck on the USS Heimdal. The Kenya Castle had just docked at Starbase J-20, known to most of us as "The Refueling Station" since it is THE place for ship and crew to get re-energized. (No pun intended, really.) I was certainly intrigued when I learned that the USS Heimdal was also docked and presenting a musical that very night. It was perfect for an evening's entertainment. Just the tune-up I needed. And how often have I gotten to use my theatre-critic skills honed at SFA!

The musical being performed was Chitty Chitty Bang Bang. Ian Fleming's most famous foray into children's literature has always been one of my favorites. The book was read to me when I was a young child and when I was older, I located a memory chip loaded with 21st century musicals. And there was the film! And I was delighted to be able to experience the characters I've loved my whole life be skillfully embodied on the stage. This new production, based on the West End musical, did not disappoint.

The Heimdal's Company put on a fantastic show. Adapted by a group of school teachers, engineers, MACOs and moms. And comprised of actors from all departments. The two- and one-half hour run time sped by at light speed and left me wanting more.

[Note: I was able to go backstage and do a few interviews before my review which were quite insightful.]

In director Professor G. Sakai's version, every set was placed between the pages or on the margins of a giant storybook which created the needed touchstones to a time period without being tied down to a very specific era. The handcrafted look of the set pieces and props is a trademark of this director and his passion for and adherence to the vintage. He insists on practical effects. Sets were meticulously built, not replicated or projected on a holodeck wall. I felt like I was drawn back in time to witness this production on opening night in London in the 21st century. And the engineering miracle that was Chitty, a full-fledged, autonomous vehicle, with her internal combustion and maternal instinct, was totally unexpected and stole the show. Designed by engineer Zak Lyon, whom I understand is quite a tinkerer, Chitty came to life as she freely moved across the stage - floating and descending, extending her specialized appendages and interacting seamlessly with her bipedal co-stars. Watching her was "transporting." I bet she won't be dismantled after the show.

Often in amateur performances, married couples are cast in romantic lead roles simply for the comfort of the actors and the ease of directing. And that was the case in this production to enchanting results. Geoff and Olive Branson, as Charactucus Potts III and Truly Scrumptious, preserved the magic of having just met and then falling in love before our eyes. The two science officers did extremely well in morphing their thick Earth New Zealand accents into the traditional middleclass 20th century British. The biggest challenge for Branson was keeping up with the wild, yet intricate choreography of Ops Officer, Bud Walker. I understand that there was a friendly competition between dance designer and lead actor which pushed the difficulty of the Me Old Bamboo number. It was a delight to watch.

Captain Darrell Millner fit the role of Grandpa Potts effortlessly with his authentic So'wester sea cap and 19th century military garb. His jocular and ability to belt out what is, in my mind, an engineer's anthem - From the Ashes of Disaster Grow the Roses of Success - earned him a standing ovation and loud applause at his next entrance. A masterful job at what is always designed to be a break-out role. Another note about Grow the Roses, before the beginning of the show it was announced that sound designer, *<Continued>*

< Continued >

.... Communications Officer Kathy Whately would be stepping into the role of one of the imprisoned scientists trying to recreate Chitty. It makes me pause to think how when this production was first mounted, she would have had to have a comically long beard. Today, we can simply have a female imprisoned scientist. Her voice added a welcome dimension to the number which is usually very bass.

As the villains of the piece, Transporter Chief L'tl'R and elementary grade teacher, Ms. Hassmer were comic and frightening at turns. Whereas Security Officer Hatter's "child catcher" maintained a true level of menace throughout. And this reviewer is pleased to note that Professor Sakai's reimagining of the child catcher does not sniff people out with a comically long nose. He used what looked like a "steampunk" version of a tricorder. [A nod to the prop master for design.] It must be said that the performers who played the young twins, Jeremy and Jemima Potts, have a bright future before them on the stage if they wish it. I pause again to reflect on that time when sadly all actors in human stories were expected to be human. In days gone by, these kids would have been robbed of their performances simply because they had antennae.

After talking with stage crew, particularly Commander Zak Lyon, I know there were some difficulties with the main character, Chitty. She didn't always make her entrances on time. Of course, you have to say please to her first, maybe that was the problem. However, none of this was noticeable to the audience.

Now comes the awkward part of writing reviews. When this writer is fairly certain that she has used all the positive adjectives standard has to offer, what's left for the conclusion but only for me to remind you that all of these people rehearsed for this show during off-duty time on a Galaxy Class Starship. And still produced the most phantasmagorically wonderful live show that I have ever seen.



NASA, Mission Partners 'Go' for Crew Flight Test Launch

Source: NASA.GOV

<https://blogs.nasa.gov/boeing-crew-flight-test/>

NASA and Boeing teams polled “go” to proceed with plans to launch the agency’s Boeing Crew Flight Test to the International Space Station at 12:25 p.m. EDT Saturday, June 1. During a Delta-Agency Flight Test Readiness Review Wednesday at NASA’s Kennedy Space Center in Florida, leaders from NASA, Boeing, and ULA (United Launch Alliance) verified launch readiness, including all systems, facilities, and teams supporting the test flight.

A backup launch opportunity is available on Sunday, June 2, with additional launch windows on Wednesday, June 5, and Thursday, June 6.



NASA astronauts Butch Wilmore and Suni Williams arrive back at the Launch and Landing Facility at the agency’s Kennedy Space Center in Florida on Tuesday, May 28, 2024, ahead of NASA’s Boeing Crew Flight Test. The first launch attempt on May 6 was scrubbed. As part of the agency’s Commercial Crew Program, Wilmore and Williams are the first to launch to the International Space Station aboard Boeing’s Starliner spacecraft atop a United Launch Alliance Atlas V rocket from Space Launch Complex-41 at nearby Cape Canaveral Space Force Station. Liftoff is scheduled for 12:25 p.m. EDT on Saturday, June 1. **Photo credit: NASA/Cory S. Huston**



“As I explore with internet via websites, FB, Youtube, NASA, and more ‘ENGINEERING’ takes on such a prominent role in the feeds. Its my hope that current Engineering will also inspire us from a STARFLEET Engineering perspective”

– Millner, Darrell



SD: 202406 ZOOM COORDINATES

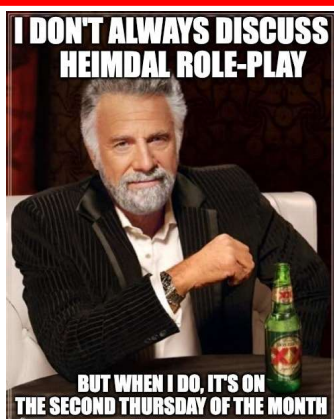
Heimdal Monthly Engineering Zoom

SD: 202406.17 ED: JUNE 17TH, 2024 7:00 pm eastern - *Normalish Meeting*

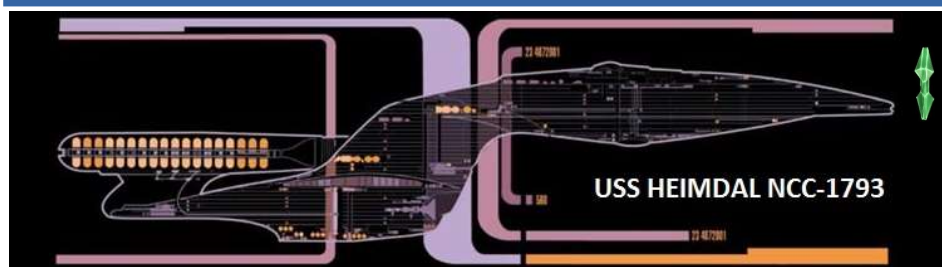
FOR CURRENT HEIMDAL ENGINEERING DEPARTMENT MEMBERS

Mark you calendar - 3rd Monday each month come join your Engineering team in a lively discussion about anything Heimdal, STAR TREK, and beyond.

Meeting ID: 852 8421 7035 Passcode: antimatter



Reminder achieves of the "The Engineering Link" <https://trek.millnernet.com/home/eng-link/>
 Heimdal's Newsletter "Rainbow Connection" <https://www.ussheimdal.com/rainbow-connection-newsletter>
 Interdepartmental Role Play Recap: <https://www.ussheimdal.com/roleplay>
 Region One Regional Department Chief of Engineering Program: <https://r1.sfi.org/engineering/>
 STARFLEET ACADEMY : <https://es.sfi.org/academy/login/index.php>



STAR FLEET

POSTAL SERVICE

All Articles are under the Copyright of the writer(s) and shared for publication in The Engineering Link.

Disclaimer: No part of this newsletter is intended as an infringement on the Star Trek copyright held by Paramount™/CBS or any other company or entity. This is a not for profit, fan organization, that strives to embrace the ideals of Star Trek, the inspiration of the "Great Bird of the Galaxy" having fun in the process.

Contact Info:

MILLNER

54 Breeze Pt.
 Byron, GA 31008
 Trek1793 @ millnernet.com
 ©2024 Trek.Millnernet.com

SD:202406 Issue #32

JOIN THE ENGINEERING TEAM - STARSHIP USS HEIMDAL 11

THE FEDERATION NEEDS YOU

N.C.C. - 1793

HEIMDAL ENGINEERING
COME EXPLORE OUR TEAM
VIRTUAL SCONES AND RAKTAJINO
Email: TREKI793@MILLNERNET.COM



www.ussheimdal.com/enlist