Resume of Kenneth S. Courtney

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Authorized to work in the US for any employer

Summary

Accomplished results-oriented Full Stack Programmer Analyst with over 15 years of experience in software development. Expertise in client/server, PC, and web-based technologies, with a focus on ASP.NET forms, data transfer, and enterprise information portal frameworks, including SharePoint and DotNetNuke. Skilled in C#, VB.NET, ASP.NET, DotNetNuke, and SQL Server, Vue.JS, React, and Angular. As a graduate of the US Navy Nuclear Propulsion Program, gained extensive experience in learning and adapting to new technologies, with qualifications in nuclear power plant operations, physics, chemistry, algebra, calculus, heat transfer, and fluid dynamics.

Technical Skills

Certifications:	MCSE, ID 352835 March 1997
Languages:	.NET Core, C#, VB.NET, ASP.NET, VB, SQL, JavaScript, XML, XSLT, HTML
Database:	MS SQL Server, ORM, No ORM
ETC:	NextJS 13.4, Vue.JS 3.0, CSS, Typescript, Bootstrap, Node.js, Cake, Mongo, Prisma, TailwindsCSS, Gulp, Yarn, Postman, IIS Admin, Hosts Config, IIS App Pool, Windows Server Administration and Configuration, Dynatrace & DataDog APM, Uptime Kuma, Azure, Docker, Cloud Hosting

Work History

DotNetNuke Subject Matter Expert - C# .NET Programmer Analyst

Tech Mahindra - St. Louis, MO | March 2021 to August 2023

- Led the maintenance and enhancement of 35 distinct DNN websites, utilizing multiple DNN versions and hosting a variety of web applications.
- Successfully assembled and guided a team of four in upgrading 30 sites from DNN 8.0.3/4 to DNN 9.11.1, while migrating them from Windows Server 2008 to Windows Server 2019 environments.
- Ensured seamless integration of custom DNN modules and applications within the DNN ecosystem.
- Subject Matter Expert for Application Performance Monitoring – developed plans and procedures for rolling out Dynatrace to the rest of the organization and provided regular training and configuration of the Dynatrace tenant.

Key Responsibilities:

- Maintained and enhanced over 50 custom DNN modules developed by various vendors.
- Integrated Staywell Health Library to provide comprehensive healthcare-specific content across 11 separate hospital websites, enriching user experience and knowledge accessibility.
- Upgraded E-Greeting Card module to allow user-uploaded photos for delivery to patients using wkhtmltopdf.
- Improved birth plan module to render birth plans with wkhtmltopdf and email them to patients.
- Developed and maintained MVC service locator and ER location search modules using Vue.JS 3, Google Maps API, and InQuicker.
- Debugged and built multiple DNN versions, CKEditor, and Azure Authentication provider to address errors in persona bar and admin bar, ensuring compatibility with revised DNN APIs.
- Migrated source code to Github Enterprise for efficient version control and collaboration.
- Responded daily to service level agreement RIMS and incidents while troubleshooting server performance and synchronization issues.
- Configured web farm environment for DNN sites and implemented Figma designs into CSS/HTML for use on production healthcare websites.
- Developed multiple 2sxc custom apps for structured content management and maintained 997 DNNSharp Action Forms.
- Established a shared knowledge base using Microsoft OneNote for efficient documentation and collaboration among developers.
- Monitored application performance using DynaTrace, DataDog, and Uptime-Kuma to optimize user experience and system efficiency.

Customer Service Representative

24-7 Intouch - Clearwater, FL | September 2018 to March 2021

- Provided exceptional customer service for a leading entertainment streaming service with over 150 million global subscribers; took over 26,000 calls and consistently ranked first out of 400+ CSRs for shift bids based on call handling metrics and availability.
- Partnered with customers to quickly resolve account, billing and technical issues; earned reputation for exceeding satisfaction targets while maintaining focus on first call resolution.

Independent Consultant

KenDev.Co - Clearwater, FL | May 2013 to March 2021

- Leveraged extensive expertise in Microsoft .NET, DotNetNuke, and other web technologies to provide tailored solutions for diverse clientele.
- Developed, maintained, and upgraded web applications, ensuring seamless integration and functionality across multiple platforms.
- Employed strong analytical skills and technical know-how to deliver innovative and cost-effective solutions to meet clients' needs.

Key Achievements:

- Successfully completed numerous projects across various industries, including e-commerce, social networking, and content management.
- Demonstrated adaptability and self-management in a remote work environment, maintaining clear communication with clients and meeting strict deadlines.
- Developed custom DotNetNuke modules and integrations, enhancing web application functionality and user experience.
- Employed proficiency in multiple programming languages (C#, VB.NET, ASP.NET) and tools (Visual Studio, SQL Server, T-SQL, IIS, and various source control systems) to deliver optimal results.

Tools/Platform: Microsoft Visual Studio.NET, VB.NET, C#, ASP.NET, DotNetNuke, Microsoft SQL Server, T-SQL, IIS, Windows Server, Telerik Rad Controls, AJAX, Web Services, XML & XSLT, Service Oriented Architecture, Visual Source Safe, TortoiseSVN, Ankh SVN, Windows Services, Configuration Management, Sharepoint Portal Service, Microsoft BizTalk Server, Windows Workflow Foundation.

Microsoft .NET and DotNetNuke Consultant

Diditbetter Software/Advantage International - Tampa, FL | February 2009 to May 2013

- Spearheaded the integration and consolidation of two distinct DotNetNuke websites running different versions, by upgrading both sites to the latest version.
- Seamlessly migrated and combined 10,000+ user accounts from the two sites into the new consolidated platform.
- Upgraded the commercial Submodules.com Portal Store module to the latest version, integrating it into the revamped DotNetNuke site.

Key Achievements:

- Developed a custom DotNetNuke module that enabled change control to upload files directly to the site, allowing customers to download software updates and integrating these download attempts into the Bedsitter commercial CRM product.
- Streamlined the process of maintaining and upgrading the websites, resulting in improved user experience and enhanced system performance.

Tools/Platform: Microsoft Visual Studio.NET, ADO.NET, Microsoft SQL Server, T-SQL, Microsoft Visual Source Safe, Microsoft Project, Visio, Windows Server, and IIS.

Senior Programmer Analyst

Protel Incorporated - Lakeland, FL | November 2008 to February 2009

- Member of team architecting and designing line of business application developed in ASP.NET 2.0 and C# against an Oracle 11G database.
- Application consisted of proprietary reporting solution integrated into the Oracle application layer and a C# ASP.NET web interface.
- Developed and maintained Protel's public facing web site using the DotNetNuke web application framework and several custom modules written for the site.
- Developed and maintained partner facing web services and specifications using ASP.NET Web Services and XML.
- Completely redesigned corporate web site using DNN framework enabling customers to create and monitor help tickets using the Sigma Pro Commercial DotNetNuke module, the XMod Custom Form DotNetNuke commercial module.

Tools/Platform: Microsoft C#, ASP.NET, Oracle 11G, PL/SQL, Infragistics netVantage Controls, AJAX Control Toolkit, Web Services, XML & XSLT, Service Oriented Architecture, Visual Studio.NET all versions, IIS, Windows Services, Visual Source Safe, Configuration Management, Sharepoint Portal Service.

Lead DotNetNuke / ASP.NET C# Developer

JetKey Software - Tampa, FL | September 2008 to November 2008

- Oversaw the design and development of a social networking site using Microsoft .NET and the DotNetNuke framework, which allowed users to track their favorite NFL football teams and participate in a fantasy football league.
- Engaged users by rewarding the most active participants with cash prizes for activities such as forum posts, tweets, and survey participation.

Key Achievements:

- Developed a custom DotNetNuke module emulating Twitter's functionality, enhancing the platform's social networking capabilities.
- Implemented a multi-level marketing system enabling users to refer friends from their email address books and popular email services like MSN, AOL, Gmail, and Yahoo Mail.
- Designed a versatile dashboard module utilizing Windows Workflow Foundation (WWF) and the Ajax Control Toolkit, allowing users to tailor mini-dashboard modules for team and player statistics.
- Developed an import program to incorporate a subscription-based sports statistics feed and coordinated the final configuration and integration of various contractor-supplied modules.

Tools/Platform: DotNetNuke, VB.NET, C#, ASP.NET, Silverlight, Telerik Rad Controls, AJAX, Web Services, Windows Workflow Foundation, XML & XSLT, Service-Oriented Architecture, Visual Studio.NET, IIS, SQL Server, T-SQL, Windows Services, TortoiseSVN, and Ankh SVN Source Control.

Internal Systems ASP.NET C# Lead Developer

Bisk Education - Tampa, FL | June 2006 to October 2008

- Architected major enhancements to LOB ERP system used by the 500 plus sales people at Bisk Education.
- The application consisted of an ASP.NET application which staged and managed orders prior to being entered into the businesses Microsoft Great Plains Dynamics ERP.
- This architecture included the development of a suite of web services which provided a gateway to the Microsoft Dynamics E-Connect service.
- At the outset of the enhancement, the order entry application had no facilities to return of orders placed using the system: the enhancement consisted of adding this capability, which significantly streamlined the cumbersome return process.
- Performed design and analysis and technical leadership for major CRM (Talisma) integration project.
- Project consisted of integrating the Talisma CRM into an existing landscape of ten major business systems, each of which was either replaced or augmented by the new system, with the goal of the system being a departmental level dashboard providing a 360 degree view into the status of each of Bisk's customers utilizing Microsoft BizTalk Server 2006 R2 Orchestrations.
- Performed technical analysis and architectural design for the integration of Florida Institute of Technology and Bisk financial processes.
- Integration points including both batch and real time web service integrations including financial aid, payment, registration, and demographics information used to synchronize each partner's various systems.

Tools/Platform: Microsoft VB.NET, C#, ASP.NET, Telerik Rad Controls, AJAX, Web Services, XML & XSLT, Service Oriented Architecture, Visual Studio.NET 2003 & 2005, IIS, T-SQL, SQL Server 2005 & SQL Reporting Services, Windows Services, Source Gear Vault, Configuration Management, Sharepoint Portal Service, Microsoft BizTalk Server 2006, Windows Workflow Foundation.

Senior .NET Programmer/Analyst

Time Warner Retail Sales - Tampa, FL | February 2006 to June 2006

Key Responsibilities:

- Architected major enhancements to the Line-of-Business (LOB) ERP system used by over 500 salespeople at Bisk Education, streamlining the order management process through an ASP.NET application.
- Developed a suite of web services providing a gateway to the Microsoft Dynamics E-Connect service.
- Added a return order processing capability to the existing order entry application, significantly improving the efficiency of the return process.
- Led the design, analysis, and technical implementation of a major CRM (Talisma) integration project, which aimed to create a departmental level dashboard offering a comprehensive view of each customer's status by integrating ten major business systems.
- Performed technical analysis and architectural design for the integration of Florida Institute of Technology and Bisk financial processes, including both batch and real-time web service integrations for financial aid, payment, registration, and demographics information synchronization.

Tools/Platform: Microsoft VB.NET, C#, ASP.NET, Telerik Rad Controls, AJAX, Web Services, XML & XSLT, Service-Oriented Architecture, Visual Studio.NET, IIS, T-SQL, SQL Server & SQL Reporting Services, Windows Services, Source Gear Vault, Configuration Management, SharePoint Portal Service, Microsoft BizTalk Server, Windows Workflow Foundation.

Senior .NET Programmer/Analyst

Marriot Vacation Club International - Lakeland, FL | November 2005 to February 2006

Key Responsibilities:

- Focused on the development and maintenance of Service-Oriented Architecture (SOA) Enterprise Integration components for various business processes.
- Worked with ASP.NET Web Services connecting to a proprietary middleware orchestration engine, handling the translation of different business messages using XML Persistence and XSLT or communication with third-party service APIs through web services.

Tools/Platform: Microsoft C#, ASP.NET, Web Services, XML & XSLT, SOA, Visual Studio.NET, IIS, Oracle, PL/SQL, PVCS.

Senior .NET Programmer/Analyst

Polk County Public Schools - Bartow, FL | January 2004 to November 2005

Key Responsibilities:

- Tasked with the development and maintenance of an N-Tier OLTP student information system serving over 100,000 students, 10,000 educational personnel, and 200 schools.
- Developed and documented new reports using Data Dynamics Active Reports and application forms for the legacy VB 6.0 and SQL Server student information system.
- Served as the technical lead on a multi-million-dollar web-based student administration and registration system (http://my.polk-fl.net), collaborating with three full-time developers, a project manager, and numerous QA and DBA resources.
- Developed and maintained a collection of task-specific modules using VB.NET and the DotNetNuke 2.1.2 enterprise information portal framework, including Student Application, Single Sign-On SOAP Web Service, TABE test administration and registration, among others.
- Integrated functionality into modules to enable communication with the legacy student information system and SAP accounting system using linked SQL Servers and the SAP .NET Connector.

Tools/Platform: Visual Basic, Visual Basic.NET, ASP.NET, DotNetNuke, SAP .NET Connector, Visual Studio.NET, IIS, Microsoft SQL Server, T-SQL, PVCS, Windows Professional, Windows Server.

Senior .NET Programmer/Analyst

OpenDoor Software/Advantage International - Tampa, FL | January 2003 to January 2004

Key Responsibilities:

- Conducted analysis, requirements definition, technical architecture, and development of several N-Tier ASP.NET & VB.NET information management systems for clients such as The Insiders Guide, www.wellingtonschool.com, and www.PrePackRx.com.
- Developed a comprehensive Unit Dose Labeling System that integrated regularly updated FDA NDC Data for clients, including Moffitt Cancer Research Center, Shriners Children's Hospitals, and University Community Health Center.
- Acted as a core team member for the DNNeLearn Open-Source Learning Management System, contributing to its development and success.

Tools/Platform: Microsoft Visual Studio.NET, VB, ADO.NET, T-SQL, Microsoft SQL Server, Microsoft Visual Source Safe, Microsoft Project, Visio, Windows Server & IIS.

Senior VB Programmer Analyst

Caremedic Systems, Inc - Saint Petersburg, FL | June 2002 to January 2003

- Responsible for the analysis, requirements documentation, technical architecture design, and development of an N-Tier Visual Basic 6.0 Client/Server Enterprise information management system which replaced numerous disparate applications within Caremedic Systems by over 100 clients.
- Utilized the Microsoft Solutions Framework during all phases of application development to maximize the system's successful completion and minimize risk.
- Utilized advanced data features of ActiveX Data Objects to provide business layer data provider to client applications.
- Developed data defined business objects to implement field level security and data validation services.
- Configuration management implemented using Visual Source Safe.

Tools/Platform: Microsoft Visual Basic 6.0, Visual Basic.Net, ADO, MTS, MSMQ, COM+, T-SQL, Microsoft SQL Server 2000, Microsoft Visual Source Safe, Microsoft Project. Visio. Windows 2000 Professional client operating systems, Windows 2000 Server Network operating system.

Senior Programmer Analyst

RADAR Group/ACIA Software - Tampa, FL | January 2002 to June 2002

- Multiple client projects including return to Hartline to enhance and maintain application originally developed in 1998
- Developed Active Server Pages content management system originally implemented on Wellingtonschools.com, followed by numerous non-profit organization web sites.

Tools/Platform: Microsoft Visual Basic 6.0, Visual Basic.Net, ADO, MTS, MSMQ, COM+, T-SQL, Microsoft SQL Server 2000, Microsoft Visual Source Safe, Microsoft Project. Visio. Windows 2000 Professional client operating systems, Windows 2000 Server Network operating system.

Senior Programmer Analyst

Chase Home Finance - Tampa, FL | March 2001 to January 2002

- Member of (ZiPPY) Team, focused on the development and maintenance of an N-Tier enterprise mortgage underwriting analysis application.
- Provided detail analysis needed to transform provided business rules into coded solutions. Developed and maintained environment documentation including build manuals, development standards materials, and technical documentation of systems components.
- Implemented major upgrade of DecisionWise underwriting system code which included the deployment of four Windows NT 4.0 servers playing unique roles in application server farm, and a Citrix MetaFrame server.
- Process included official turnover of vendor owned code to Chase Home Finance, and required significant systems and Visual Basic knowledge to analyze the system from the source-code level to the network and operating system level.
- Responsible for authoring and maintenance of numerous technical documents including build manuals for the various systems under responsibility, programmer technical documentation, and change control documentation.

Tools/Platform: Microsoft Visual Basic 5.0 and 6.0, ADO, MTS, MSMQ, COM+, Sybase SQL Server 11.92, T-SQl, Microsoft SQL Server 2000, Embarcadero Rapid SQL, Intersolv PVCS Version Control system, Microsoft Visual Model

Senior Programmer Analyst

Ceridian Employer Services - Saint Petersburg, FL | January 2001 to March 2001

- Responsibilities included the design and development of a gross-to-net paycheck calculation engine designed to process 1 million paychecks per hour.
- Technologies utilized included Microsoft COM+ Services, Extreme Logic of Atlanta, GA's High Volume Engine to evenly distribute processing load across N tier of servers, and development of Visual Basic components necessary to support this batch calculation process using Microsoft Visual Modeler, and SQL Server 2000 data modeling tools, and Microsoft Visual Source Safe version control system. This was a short-term contract.

Tools/Platform: Microsoft Visual Basic 6.0, ADO, COM+ Services, MSMQ, T-SQL, Microsoft SQL Server 2000, Microsoft Visual Source Safe, Microsoft Visual Modeler, Microsoft Project. Visio. Windows 2000 Server, Extreme Logic High Volume Engine for COM+ & and MSMQ.

Senior ASP and VB Programmer Analyst

Hydrogen Media, Inc - Saint Petersburg, FL | August 2000 to January 2001

- Design and development of numerous solutions utilizing Cold Fusion, Visual Basic, Active Server Pages, COM+, Microsoft SQL Server 7.0 and 2000.
- Development tools included Visual Interdev, and Cold Fusion Editor, and Visual Source Safe.
- Developed standard shopping cart, content management, and reporting tools.
- Integrated numerous e-commerce sites utilizing multiple live payment systems utilizing COM+ Visual Basic components written by me to connect with Authorize.NET for payment services.
- Designed and implemented live order fulfillment, real time inventory management and customer Service with Access Amway Logistics, Inc., implemented using XML, and UPS Rates component to check real time shipping charges of shopping cart contents.
- Developed stand alone Synchronization Manager Using Visual Basic 6.0, designed to synchronize various disparate recruiting databases with Hydrogen Media designed Cold Fusion powered web site.

Tools/Platform: Microsoft Visual Basic 6.0, JavaScript, MTS, MSMQ, COM+, Microsoft SQL Server 7.0 and 2000, T-SQL, Microsoft Internet Information Server, Microsoft Active Server Pages, Data Dynamics Active Reports 1.0 and 2.0, Cold Fusion 4.5, Visual Source Safe, Microsoft Project. Visio. Windows NT Server, Terminal Server, Windows 2000 Professional and Server, Oracle 8 Server, Redhat Linux 6.2, Samba, NFS, PostgreSQL, MySQL, and Apache.

Senior Programmer Analyst

Web Advertising Technologies, Inc - Tampa, FL | May 1999 to August 2000

- Designed, developed, and implemented the Web Advertising Traffic System (WATS), and Internet Marketing system using Microsoft Windows 2000 COM+ Services, SQL Server and Active Server Pages.
- WATS generates greater than 3,500 Unique clicks a day, and greater than 3000 Unique IP addresses a day.
- Developed Visual Basic 6.0 and Active Server Pages applications utilizing ADO, ADSI, and basic File I/O to manage more than 600 Internet domains on multiple Windows 2000 servers. Functionality included registration, DNS on multiple DNS Servers, maintenance of IP Address mappings, and configuration of more than 450 Virtual Servers on Microsoft Internet Information Server.

Tools/Platform: Microsoft Visual Basic 6.0, JavaScript, COM+, Microsoft SQL Server 7.0, Microsoft Active Server Pages, Cold Fusion 4.5, Visual Source Safe, Microsoft Project. Visio. Seagate Crystal Reports 6.0 including Report ActiveX Server, Windows NT Server, Terminal Server, Windows 2000 Professional and Server, Oracle 8 Server, Redhat Linux 6.2, Samba, NFS, PostgreSQL, MySQL, and Apache.

Chief Technology Officer

CSG - Tampa, FL | August 1998 to March 2000

- Responsibilities included sales, in house information technologies development, and Internet services development.
- Responsible for providing senior onsite networking technical support to over one hundred customers.
- Designed and developed sales management and automation tool using Active Server Pages, Visual Basic and Microsoft Access.
- The application integrated Microsoft Outlook, Word, Exchange Server, and Zeta Fax to automate the process of sending and tracking the results sales related faxes using Exchange, Outlook, Microsoft Word, & ZetaFax.
- Responsible for managing and migrating Meta-IP DNS 2.1 and Send Mail to Microsoft DNS Server and Exchange Server 5.5 running on Windows NT Server 4.
- Developed and maintained lucrative Small Business Server IPP service providing 56K and ISDN connectivity to CSG's Clients, Exchange ETRN Mail Queuing, and Proxy Services.

Tools/Platform: Microsoft Visual Basic for Applications, Microsoft Access, Microsoft Exchange Server, Windows 2000 Server, Omtool Fax Senior, Fax Routing Software, ZetaFax

Senior Programmer Analyst

Hillsborough Area Regional Transit Authority - Tampa, FL | May 1998 to August 1998

- Design and implement a Microsoft Access 8.0 database to enforce labor contract based, progressive employee points system.
- Project consisted of defining and analyzing application goals, programmatically implementing the structure of a complex progressive disciplinary action system with many cases and sub cases which would lead to the termination of Hartline employees, evaluating and implementing strict security protocols at both the application and network layers of the application, importing and normalization of legacy employee data.

Tools/Platform: Microsoft Visual Basic for Applications, Microsoft Access

Senior Programmer Analyst

United States Postal Service - Tampa, FL | May 1998 to August 1998

- Responsibilities included the porting of a legacy labor grievance tracking application from early mainframe based application to a Microsoft Access application.
- Project included normalization of 70,000+ record Oracle database to Microsoft Access 2.0, ensuring year 2000 compliance in Access 2.0 format, development of robust reporting engine, development of comprehensive documentation for training and development purposes, and training users to use the new solution.

Tools/Platform: Microsoft Visual Basic for Applications, Microsoft Access

Information Systems Manager

Penpower - Brandon, FL | April 1995 to April 1998

- Responsible for the design, installation and maintenance of LAN, installation & maintenance of IIS, Exchange Server, WinProxy, OmTool Fax Senior, ArcServe, and CheckPoint Firewall One.
- Design, development and maintenance of corporate Human Resources database application using Microsoft Access versions 2.0, 7.0 and 8.0.
- Developed Microsoft Internet Information Server Intranet application based upon original Access database implementing and ultimately replacing the original Microsoft Access client application.

Tools/Platform: Microsoft Visual Basic 6.0, JavaScript, COM+, Microsoft SQL Server 6.5, IIS, ASP, Visual Source Safe, Microsoft Project. Visio. Windows NT Server, Terminal Server, Windows 2000 Professional and Server.

United States Navy, Multiple Duty Stations

In this challenging role serving with the United States Navy, I undertook a range of responsibilities encompassing operations, maintenance, and testing of numerous steam systems and components based on a Naval Nuclear Propulsion Plant.

Key elements of these responsibilities included:

- Management and maintenance of main propulsion engines, turbine generators, hydraulic systems, lube oil transfer and purification, and cooling systems.

- Overseeing seawater cooling systems, feed and condensate systems, high-pressure air compressor systems, and low-pressure air systems.

- Responsibility for distiller and evaporator systems, air conditioning systems, and damage control systems, ensuring smooth operation across all these critical areas.

I maintained qualifications on all electrical and mechanical engineering watchstations of the S6G Naval Nuclear Propulsion Plant. This covered stations such as Engineroom Lower Level, Engineroom Forward, Engineroom Upper Level, Shutdown Roving, Primary Valve Operator, and Control Point Watch. In addition to these stations, I acquired additional qualifications including Basic Engineering, Submarine Warfare, and Basic Radiation Worker.

Furthermore, I contributed to the successful deactivation of the USS Baton Rouge at Mare Island Naval Shipyard as a member of the Decommissioning Crew, showcasing my ability to partake in and contribute to extensive team tasks.

Professional

3/1997 Network Education Centers MCSE & Novell Netware Network Administration Tracks; MCSE ID 352835:

Supporting Microsoft Windows 95
Supporting Microsoft Windows NT Workstation
Supporting Microsoft Windows NT Server
Inter Networking with TCP/IP on Microsoft Networks
Supporting Microsoft Exchange Server
Administering Microsoft SQL Server 6.5
Database Design and Implementation in Microsoft SQL Server 6.5
All Novell NetWare 4.11 CNE Courses

10/1992 US Navy Nuclear Propulsion Program NEC 3355:

Extensive course of instruction takes over 1 1/2 years to complete and is scheduled in four phases: Recruit Training, a nine-week course where candidates enter one of three Nuclear Field ratings; Nuclear Field "A" School, the second phase of training takes place at the Naval Nuclear Power Training Command in Orlando, FL., which lasts 14 weeks; Nuclear Power School, a 24-week course of instruction covering all academic subjects needed to understand the theory and operation of a nuclear power plant. For the fourth phase of training, students go on to one of two Nuclear Power Training Unit (NPTUs), to either a prototype nuclear power plant located near Ballston Spa, N.Y., or a permanently moored nuclear powered submarine near Charleston, S.C.